Data Validation Report

13. FORM 13 - ANALYSIS RUN LOG

A Form 13 with the required information was filled out for each analysis run in the data package.

Yes_X_ No___

Comments: None.

14. Additional Comments or Problems/Resolutions Not Addressed Above

Page 1 of the Evidence Audit Checklist (EAC) indicates three airbills are associated with this SDG, however documentation is only provided for Airbill Number 3430, which documents the shipment of four packages. The laboratory only documented receipt of two coolers, so it is unclear as to what the other two packages were that were included on the airbill.

INORGANIC DATA QUALITY ASSURANCE REVIEW

Region VIII

DATA QUALIFIER DEFINITIONS

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality. Use of additional qualifiers should be carefully considered. Definitions for all qualifiers used should be provided with each report.

GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R Reported value is "rejected." The data are unusable. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- The associated numerical value is an estimated quantity and is the approximate concentration of the analyte in the sample.
- J+ The associated numerical value is an estimated quantity but the result may be biased high.
- J- The associated numerical value is an estimated quantity but the result may be biased low.
- U J The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound may or may not be present in the sample.
- N J Estimated value of a tentatively identified compound. (Identified with a CAS number.)
 ORGANICS analysis only.
- U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Data Validation Report

	ACRONYMS
AA	Atomic Absorption
Ag	Silver
CCB .	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
CRA	CRQL standard required for AA
CRQL	Contract Required Quantitation Limit
CRI .	CRQL standard required for ICP
CV	Cold Vapor
EPA	U.S. Environmental Protection Agency
GFAA	Graphite Furnace Atomic Absorption
Hg	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICSA	Interference Check Sample (Solution A)
ICSAB	Interference Check Sample (Solution AB)
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LRA	Linear Range Verification Analysis
MOL	Method Detection Limit
PDS	Post Digestion Spike
, QC·	Quality Control
RPD	Relative Percent Difference
RPM	Regional Project Manager
RSD	Percent Relative Standard Deviation
SA	Spike Added
SAS	Special Analytical Services
SDG	Sample Delivery Group
sow	Statement of Work
SR	Sample Result
SSR	Spiked Sample Result

MH35G5	

			Contract:				<u>.</u>
Lab Code	e: DATAC	Case No.: 407	Mod. Ref.	No.: _	SDG	No.: 1	MH35G5
Matrix:	Soil		Lab Sample	ID: 1	1030769001		
% Solids	s: 79.8		Date Recei	wed. 1	11/02/2010		
0 002241			Date Necel	νeα. <u>-</u>	11/03/2010		
Concenti	cation Units	(ug/L, ug o	r mg/kg dry weigh	nt): mg	ı/kg		
•	CAS No.	Analyte	Concentration	С	Q	М] .
	7429-90-5	Aluminum		 			·
	7440-36-0	Antimony	0.44	J	N	MS	1.305 7K
	7440-38-2	Arsenic	58.9		E	MS	7
	7440-39-3	Barium	144.	l		MS	- 4
	7440-41-7	Beryllium	0.25	J	E	MS	1 63 UT Z
	7440-43-9	Cadmium	0.77		E	MS	J N
	7440-70-2	Calcium					
	7440-47-3	Chromium	4.8		E	MS	J Z
	7440-48-4	Cobalt	4.0			MS	17
	7440-50-8	Copper	64.9		E	MS	5 N
	7439-89-6	Iron					1~ "
	7439-92-1	Lead	254.			MS	1
•	7439-95-4	Magnesium					1
. }.	7439-96-5	Manganese	406.		E	MS	J Y
	7439-97-6	Mercury] _
	7440-02-0	Nickel	1.9		E	MS	1 7
	7440-09-7	Potassium					
	7782-49-2	Selenium	1.5	J	N	MS	3.1 05 7
	7440-22-4	Silver	0.95		N	MS	J 4
	7440-23-5	Sodium					~
	7440-28-0	Thallium	0.45	J	·	MS	0.6305
	7440-62-2	Vanadium	36.5			MS	
	7440-66-6	Zinc	192.		NE	MS	J- n 2/181
	57-12 - 5	Cyanide					2/01
							Mal
olor Be	fore: BROWN	Clari	ty Before:		Texture: (COARSE	
olor Af	ter: COLORLE		ty After: CLEAR		- _ Artifacts		
	_					**	
omments	:						

MH35G5

nits (ug/L, ug or O. Analyte -5 Aluminum O Antimony -2 Arsenic -3 Barium -7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper -6 Iron	Lab Sample Date Recei mg/kg dry weigh Concentration 3730	.ved: <u>1</u>	1/03/2010	M P	
Analyte Aluminum Antimony Arsenic Barium Cadmium Cadmium Calcium Chromium Cobalt Copper	mg/kg dry weigh Concentration 3730	c C	/kg		
Analyte Aluminum Antimony Arsenic Barium Cadmium Cadmium Calcium Chromium Cobalt Copper	Concentration 3730	С			
-5 Aluminum -0 Antimony -2 Arsenic -3 Barium -7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	3730		Q		
-0 Antimony -2 Arsenic -3 Barium -7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper		J		P	
-2 Arsenic -3 Barium -7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	195.	J			
-2 Arsenic -3 Barium -7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	195.	J	1.00		
-7 Beryllium -9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	195.	J			
-9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	195.	J			
-9 Cadmium -2 Calcium -3 Chromium -4 Cobalt -8 Copper	195.	J			1
-3 Chromium -4 Cobalt -8 Copper	195.	J			i
-4 Cobalt -8 Copper				P	6274
-4 Cobalt -8 Copper		ļ			0~
-8 Copper		i			<u> </u>
					ŀ
	53500			Р	1
·1 Lead			~ 	- 	İ
4 Magnesium	2030			P	į
5 Manganese		1 .			
·6 Mercury	<u> </u>	1.			
	606.			Р	627 L 627 U 2/1
·2 Selenium					
4 Silver					
	26.2	J	E	P	627U
					,
					2/1
1-2		 -			
	-7 Potassium -2 Selenium -4 Silver -5 Sodium -0 Thallium -2 Vanadium -6 Zinc	-7 Potassium 6062 Selenium -4 Silver -5 Sodium 26.2 -0 Thallium -2 Vanadium -6 Zinc	-7 Potassium 606. -2 Selenium -4 Silver -5 Sodium 26.2 J -0 Thallium -2 Vanadium -6 Zinc	-7 Potassium 606. -2 Selenium -4 Silver -5 Sodium 26.2 J E -0 Thallium -2 Vanadium -6 Zinc	Cyanide

MH35G6	

	DATAC	atory Group	Contract:	EPW090	36		
Matrix:	~	Case No.: 407					
	Soil		55 Mod. Ref.	No.:	SDG	No.: 1	ин35G5
} Solids:			Lab Sample	ID: 1	030769002		
	62.9		Date Recei	ved: 1	1/03/2010		
2	tion muito	1 1T	0 4				
oncentra, F	ution Units		mg/kg dry weigh	it): mg	7 kg		1
į.	CAS No.	Analyte	Concentration	C	Q	M	į
	7429-90-5	Aluminum					1 .
	7440-36-0	Antimony	0.82	J	N	MS	1.6 UT X
	7440-38-2	Arsenic	44.2		E	MS	5 %
	7440-39-3	Barium	443.			MS	
i —	7440-41-7	Beryllium	0.38	J	E	MS	0.7905
	7440-43-9	Cadmium	0.73	J	E	MS	0.790]
[7440-70-2	Calcium					ر ا
- Jan	7440-47-3	Chromium	4.6		E	MS	JM
	7440-48-4	Cobalt	3.5			MS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u> </u>	7440-50-8	Copper	35.8		E	MS	丁水
L-	7439-89-6	Iron					_
<u> </u>	7439-92-1	Lead	372.			MS	
17	7439-95-4	Magnesium					اربا [
	7439-96-5	Manganese	344.		E	MS	1 1
<u> </u>	7439-97-6	Mercury					
	7440-02-0	Nickel	2.7		В	ns	J 76
<u>L</u> 2	7440-09-7	Potassium					ĺ. "
[7	7782-49-2	Selenium	1.8	J	N	MS	4,005 K
[.7	7440-22-4	Silver	2.2		N	MS	丁水
[7	7440-23-5	Sodium					
[7	7440-28-0	Thallium	0.64	J		MS	0.7905
7	7440-62-2	Vanadium	37.2			MS	21
<u> </u>	7440-66-6	Zinc	179.	·	NE	MS	17- /
5	57-12-5	Cyanide			-		0.79UJ J- 74 2/181
<u> </u> _							
<u></u>		<u> </u>				<u> </u>	
olor Befo	ore: ORANGE	Clarit	y Before:		_ Texture: M	EDIUM	
olor Afte	er: BROWN	Clarit	y After: CLEAR		_ Artifacts:		· · · · · · · · · · · · · · · · · · ·
omments:							
	reported -	alue is cotim	ated due to the	DYC 55	ngo of inter	-fores	
E: The	reborred A	alue is estim	ated due to the	prese	nce or inter	reren	ce.
		· ·			· · · · · · · · · · · · · · · · · · ·		

EPA	SAMPLE	NO.		
	MIDEAC			

rix:	Soil		Lab Sample	ID:	L030769002		
olids	: 62.9	····	Date Recei	ved:]	1/03/2010		
centr	ation Units	(ug/L, ug or m	ng/kg dry weigh	.t): mg	∮/kg		•
	CAS No.	Analyte	Concentration	С	Q	м	ĺ
	7429-90-5	Aluminum	4750			P	ł
	7440-36-0	Antimony				 	1.
	7440-38-2	Arsenic				· · · · · ·	
	7440-39-3	Barium				 	
	7440-41-7	Beryllium				-	
	7440-43-9	Cadmium			-·· ·· ··· -··		
	7440-70-2	Calcium	854.			P	1
;	7440-47-3	Chromium					
	7440-48-4	Cobalt					
	7440-50-8	Copper				 	
	7439-89-6	Iron	73000		D	P	
	7439-92-1	Lead					
	7439-95-4	Magnesium	1890	-		P	
	7439-96-5	Manganese					" .
,	7439-97-6	Mercury				1	
•	7440-02-0	Nickel					-
	7440-09-7	Potassium	1150			P	J+ 7 7950 2/18
-	7782-49-2	Selenium				· · ·	7
Į	7440-22-4	Silver					
	7440-23-5	Sodium	72.1	J	E	P	795 U
ı	7440-28-0	Thallium					alia
. 1	7440-62-2	Vanadium					410
	7440-66-6	Zinc					
[57-12-5	Cyanide					
. [
. [
D - 4	E ODBNOS		n - 6		m t		
or Bei	core: ORANGE	Clarity	Before: .		_ Texture: M	EDIUM	
or Aft	ter: YELLOW	Clarity	After: CLEAR		Artifacts:		
			THE COLL CAMERA				
ents:							

INORGANIC ANALYSIS DATA SHEET EPA SAMPLE N

JPA	SAMPLE	NO.
	MH35G7	

		Case No.: 407			SDG	NO.: E	142762
rix:	Soil		Lab Sample	ID: 10	30769005		
Solids	36.2		Date Recei	ved: <u>1</u>	L/03/2010		
					, ,		
icenti	ation Units	(ug/L, ug or	mg/kg dry weigh	it):mg/	кg	-'1	1.
	CAS No.	Analyte	Concentration	c	Q	М	
	7429-90-5	Aluminum			•		2.805
	7440-36-0	Antimony	1.1	J	N	MS	2,803
	7440-38-2	Arsenic	36.7		E	MS	17
	7440-39-3	Barium	30.7			MS	
	7440-41-7	Beryllium	0.13	J	E	MS	1.40 I
	7440-43-9	Cadmium	0.11	J	E	MS	1.405
	7440-70-2	Calcium		<u> </u>			l.
	7440-47-3	Chromium	5.1		E	MS	J 2.80
	7440-48-4	Cobalt	1.4	J		MS	
	7440-50-8	Copper	113.		E	MS	17 3
	7439-89-6	Iron					1
	7439-92-1	Lead	136.			MS	
	7439-95-4	Magnesium					<u>.</u> _
	7439-96-5	Manganese	156		E	MS]]
	7439-97-6	Mercury					
	7440-02-0	Nickel	0.99	J	E	MS	6.901
	7440-09-7	Potassium					
	7782-49-2	Selenium	0.78	J	N	MS	6.901
	7440-22-4	Silver	0.38	J	N	MS	1.405
	7440-23-5	Sodium					_
	7440-28-0	Thallium	0.12	J		MS	1.405
	7440-62-2	Vanadium	27.8			MS	l
	7440-66-6	Zinc	44.1		NE	MS]]- ,
	57-12-5	Cyanide					J- 2/
				L.			
							J .
			_			(DD TID)	
or Be	efore: ORANGE	Clari	ty Before:		_ Texture: <u> </u>	AEDIOM	
70.4	E+ COT ODI I	ree Clari	ty After: CLEAR		Artifacts	•	
or A	ter: COLORLI	crari	Cy Alter: Chian		- HICTIACCS		
ments	s •						
		ralne is esti	mated due to the	prese	nce of inte	rferen	ice.
+ TUI	e rehorred A	CALCO TO COLT	marca aac co ciic	F-000.			

		INORGANI	.C AN	ALISIS DATA	2HFF.	Т _	EPA	SAMP	LE NO.
						İ		мн35	37
	•					£	······································		
Lab Name	: ALS Labora	tory Group		Contract: 1	EPW09	036			
Lab Code	: DATAC C	Case No.: 4075	5	Mod. Ref. No.: SDG No.:			o.: <u>P</u>	ин35G5	
Matrix:	Soil			Lab Sample	ID:	10307690	05		· · · · · · · · · · · · · · · · · · ·
% Solids	: 36.2	· ·		Date Recei	ved:	11/03/20	10	··	····
						45			
Concentr	ation Units	(ug/L, ug or	mg/l	cg dry weigh	t): m	g/kg		~~	
	CAS No.	Analyte	Con	centration	c	Q		M	
	7429-90-5	Aluminum		2020				P	1
	7440-36-0	Antimony							
	7440-38-2	Arsenic							
	7440-39-3	Barium							1
	7440-41-7	Beryllium							
	7440-43-9	Cadmium			<u>-</u>				-2
	7440-70-2	Calcium		1110				P	1380 U TA
	7440-47-3	Chromium	<u> </u>						1,000
* * *	7440-48-4	Cobalt							
	7440-50-8	Copper		· ···					
	7439-89-6	Iron		397000		D		P	1
		Lead		39,000					
	7439-92-1			753.	J			P	1380 U 7
, , , , , , , , , , , , , , , , , , ,	7439-95-4	Magnesium	<u> </u>	755.				_ <u>_</u>	12000
	7439-96-5	Manganese							
	7439-97-6	Mercury							
	7440-02-0	Nickel	CACOPTO PROPERTY NAMED IN						120211
	7440-09-7	Potassium		498.	J			Р	13800
	7782-49-2	Selenium							·
	7440-22-4	Silver							100 11
	7440-23-5	Sodium		53.5	J	E		P	1380 U
	7440-28-0	Thallium							1380 U 1380 U ^M 2/18/u
	7440-62-2	Vanadium							אוצווג
	7440-66-6	Zinc						_	
	57-12-5	Cyanide							·
									1
						-			İ
		<u> </u>			·				•
Color Be	fore: ORANGE	Clarit	у Ве	fore:		Textu	re: ME	DIUM	
Color Af	ter: YELLOW	Clarit	y Af	ter: CLEAR		Artif	acts:		
Comments	:								
		alue is estim	ated	due to the	pres	ence of	interf	eren	ice.
- x11C	. Toporoca v	~_40 ID 000IM			F-0-				

MH35G8	

						MH35	iG8	
Lab Name	a: ALS Labor	atory Group	Contract:	EPW090	36			
Lab Code	e: DATAC	Case No.: 4075	5 Mod. Ref.	No.: _	SDO	G No.:	MH35G5	
Matrix:	Soil	-	Lab Sample	ID: 1	1030769006			
% Solids	78.1	····	Date Recei	ved: 1	1/03/2010			
Concentr	ation Units	· /na/T. na or	mg/kg dry weigh	+) - ma	·/k~			
concence	CAS No.	Analyte	Concentration				7	
			Concentration	С	Q	M	_	
	7429-90-5 7440-36-0	Aluminum				_	1	- 70
	7440-38-0	Antimony	0.14	J	N .	MS	1,301	-41
	7440-39-3	Arsenic Barium	11.6 78.8		E	MS	17	12
	7440-41-7	Beryllium	0.66			MS	1,301	M
	7440-43-9	Cadmium	0.42	J	E .	MS	0.640	T N
	7440-70-2	Calcium	0.42		<u>E</u>	MS	10,070.	7
	7440-47-3	Chromium	6.2	-	E	MS	1	4
	7440-48-4	Cobalt	6.5			MS		~/
	7440-50-8	Copper	65.0		E	MS	15	N
	7439-89-6	Iron				_	- 	
	7439-92-1	Lead	145.			MS	1	
	7439-95-4	Magnesium		 			1	
	7439-96-5	Manganese	839.		DE	MS	1	-71
	7439-97-6	Mercury					1 "	•
	7440-02-0	Nickel	4.2		- F	MS	<u> </u>	71
	7440-09-7	Potassium						······································
	7782-49-2	Selenium	1.0	J	N	MS	3203	T #
	7440-22-4	Silver	0.48	J	N	MS	3.20J	T
	7440-23-5	Sodium					0,010	V
	7440-28-0	Thallium	0.31	J		MS	0.64 4	汀 🌂
	7440-62-2	Vanadium	52.2			MS		
	7440-66-6	Zinc	145.		NE	MS	1 1 -	-11
	57-12-5	Cyanide					J-	118/11
]	[-1
Į.			<u></u> <u></u>				i	
olor Bei	fore: ORANGE	Clarit	y Before:		_ Texture:	MEDIUM	_	
			y After: CLEAR		_ Artifacts			
omments:	:		•					
		alue is estima	ted due to the	preser	nce of inte	erferen	CA	
				F* 0361		~~ TGT GII		

			· ·					

MH35G8	

						мн350	38
Lab Name	: ALS Labora	tory Group	Contract:	EPW09036			
Lab Code	: DATAC C	ase No.: 4075	Mod. Ref.	No.:	SDG	No.: M	H35G5
Matrix:	Soil		Lab Sample	ID: <u>103</u>	0769006		
% Solids	78.1	·	Date Recei	ved: <u>11/</u>	03/2010		
Concentr	ration Units	(ug/L, ug or	mg/kg dry weigh	nt): mg/kg	a ,		
	CAS No.	Analyte	Concentration	·C	Q	М	
	7429-90-5	Aluminum	8370			P	
	7440-36-0	Antimony					
	7440-38-2	Arsenic					
	7440-39-3	Barium					
*.	7440~41~7	Beryllium		1 1			
	7440-43-9	Cadmium					
	7440-70-2	Calcium	1230			P	
	7440-47-3	Chromium					
	7440-48-4	Cobalt			~		
	7440-50-8	Copper					
	7439-89-6	Iron	34800			P	
	7439-89-0	Lead	34000	 			
	7439-95-4	Magnesium	1460	 -		P	İ
	7439-95-4	Manganese	1400				
				 			
	7439-97-6	Mercury					
	7440-02-0	Nickel			.,,,,	ъ	T+ M
	7440-09-7	Potassium	902.	 			4 '
	7782-49-2	Selenium			<u></u>		ربــ
	7440-22-4	Silver		<u> </u>		P	11100
	7440-23-5	Sodium	72.2	J	E	P	16900
	7440-28-0	Thallium		ļļ			J+ 74 640 0 71 2/18/1
	7440-62-2	Vanadium		ļ		_	
	7440-66-6	Zinc		ļ <u></u>			
	57-12-5	Cyanide		ļ. — ļ		_	
		<u> </u>]
Color Be	fore: ORANGE	Clarit	ty Before:	!	Texture:	COARSE	
	ter: YELLOW		ty After: CLEAR		Artifacts	:	
00101 111	1211011		- <u>,</u>	· · · · · · · · · · · · · · · · · · ·			
Comments	:						
		alue is estim	nated due to the	presence	e of inte	rferen	ce.
						•	
		•	•		-		

						MH35	G9
Lab Name	: ALS Labora	tory Group	Contract:	EPW090	36		
Lab Code	: DATAC C	ase No.: 4075	Mod. Ref.	No.:_		SDG No.: I	MH35G5
Matrix:	Soil	· ·	Lab Sample	ID: 3	10307690	07	
% Solids	: 33.3		Date Recei	.ved: 1	L1/03/20	10	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mç	g/kg		
	CAS No.	Analyte	Concentration	С	Q	М]
	7429-90-5	Aluminum					1
	7440-36-0	Antimony	1.8	J	N	MS	1.50J
	7440-38-2	Arsenic	24.5		E	MS	14- 17
	7440-39-3	Barium	36.1			MS	† 7
	7440-41-7	Beryllium	0.74	J	E	MS	1.500
	7440-43-9	Cadmium	1.2	J	E	MS	172
	7440-70-2	Calcium	1.12	-			11207
	7440-47-3	Chromium	6.1	-	E	MS	1,50I J 7, 3,00 7,
	7440-47-3	Cobalt	2.3	 	- 15	MS-	2011 7
	7440-50-8	Copper	147.	 	E	MS	130 7/
			147.	 		MS	1 ""
	7439-89-6	Iron	777	 -		MC	-{
	7439-92-1	Lead	773.			MS	4
· · · · · · · · · · · · · · · · · · ·	7439-95-4	Magnesium					7
	7439-96-5	Manganese	489.		E	MS	`` اہ ٰ
	7439-97-6	Mercury					- TH
	7440-02-0	Nickel	2.0		E	MS	
	7440-09-7	Potassium	····				7.505
	7782-49-2	Selenium	1.0	J	. N	MS	17,501
	7440-22-4	Silver	8.5		N	MS]] 7
	7440-23-5	Sodium					ا ہے۔ ہے ا
	7440-28-0	Thallium	0.19	J		MS	1.501
	7440-62-2	Vanadium	34.0			MS	
	7440-66-6	Zinc	465.		NE	MS]] - (
	57-12-5	Cyanide					1.50J J- 2/18
] ' '''
							1
Color Be	fore: BROWN	Clarit	y Before: _,		Textu	re: MEDIUM	<u> </u>
Color Af	ter: BROWN	Clarit	y After: CLEAR	 .	_ Artifa	acts:	
Comments	:						
		alue is estim	ated due to the	prese	nce of	interferen	ice.
							.
					·		

000213

Ab Name: ALS Laboratory Group							мнз	5G9
### Code: DATAC Case No.: 40755 Mod. Ref. No.: SDG No.: MH35GS	Lab Name	e: ALS Labor	atory Group	Contract:	EPW09	036		
Date Received: 11/03/2010 Date Received: 11/03/2010							No.:	MH35G5
Oncentration Units (ug/L, ug or mg/kg dry weight): mg/kg CAS No.	Matri x:	Soil						
CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 3850 P 7440-36-0 Antinony 7440-38-2 Arsenic 7440-39-3 Barium 7440-41-7 Beryllium 7440-41-7 Calcium 1390 P 7440-47-3 Chromium 1390 P 7440-47-3 Chromium 1390 P 7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-95-5 Manganese 7439-95-5 Manganese 7439-97-6, Mercury 7440-02-0 Nickel 7440-02-7 Sodium 514. J P 7420-22-4 Silver 7440-23-5 Sodium 38.4 J E P 7440-23-5 Sodium 38.4 J E P 7440-23-0 Thallium 7440-66-6 Zinc 7440-66-6 Zinc 7440-66-6 Zinc 7440-66-6 Zinc 7440-66-6 Zinc 7440-66-6 Zinc 7440-66-6 Zinc 75-12-5 Cyanide Clarity Befoxe: Texture: MEDIUM Clarity After: CLEAR Artifacts: mements:	solids	33.3		Date Recei	.ved:	11/03/2010		
CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 3850 P 7440-36-0 Antimony 7440-36-0 Antimony 7440-38-2 Arsenic 7440-39-3 Barium 7440-41-7 Beryllium 7440-47-3 Cadmium 7440-70-2 Calcium 1390 P 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7439-99-6 Iron 218000 D P 7439-99-1 Lead 7439-99-4 Magnesium 646. J F 150D V 7439-99-6 Menganese 7439-97-6 Mercury 7440-02-0 Nickel 7440-02-0 Nickel 7440-02-1 Selenium 7440-22-4 Silver 7440-23-5 Sodium 38.4 J F F 150D V 7440-22-4 Silver 7440-22-0 Thallium 7440-22-2 Vanadium 7440-22-2 Vanadium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide lor Before: RED Clarity Before: Texture: MEDIUM Clarity After: CLEAR Artifacts:								
T429-90-5 Aluminum 3850 P	Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	it): ma	g/kg		
7429-90-5 Aluminum 3850 P 7440-36-0 Antimony 7440-38-2 Arsenic 7440-39-3 Barium 7440-41-7 Beryllium 7440-41-7 Beryllium 7440-47-3 Cadmium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-92-1 Lead 7439-95-4 Magnesium 646. J P 1500 J M 7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Nickel 7440-02-0 Nickel 7440-02-1 Silver 7440-22-4 Silver 7440-22-5 Sodium 38.4 J E P 7500 J M 7440-22-5 Sodium 38.4 J E P 7500 J M M M M M M M M M		CAS No.	Analyte	Concentration	С	0	м	7
T440-36-0 Antimony T440-38-2 Arsenic T440-38-2 Arsenic T440-41-7 Beryllium T440-41-7 Beryllium T440-43-9 Cadmium T390 P T500 U T440-47-3 Chromium T440-47-3 Chromium T440-47-3 Chromium T440-48-4 Cobalt T440-50-8 Copper T439-98-6 Iron 218000 D P T500 U T439-92-1 Lead T439-95-5 Manganese T439-97-6 Mercury T440-09-7 Potassium 514.		7429-90-5	Aluminum	3850	 -			
7440-38-2 Arsenic		7440-36-0					P	-
7440-43-9 Barium 7440-41-7 Beryllium 7440-43-9 Cadmium 7440-47-3 Cadmium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-99-1 Lead 7439-95-4 Magnesium 646. J P 1500 U 7439-96-5 Manganese 7439-97-6 Mercury 7440-09-7 Fotassium 514. J P 1500 U 7440-22-4 Silver 7440-22-4 Silver 7440-23-5 Sodium 38.4 J E P 1500 U 7440-23-5 Sodium 38.4 J E P 1500 U 7440-23-5 Cyanide 75-12-5 Cyanide Clarity Before: Texture: MEDIUM Clarity After: CLEAR Artifacts:		7440-38-2			-		 	1
T440-41-7 Beryllium T7440-43-9 Cadmium T390 P T500 U T440-70-2 Calcium T390 P T440-47-3 Chromium T440-47-3 Chromium T440-48-4 Cobalt T440-50-8 Copper T439-89-6 Iron 218000 D P T439-92-1 Lead T439-92-1 Lead T439-95-4 Magnesium 646.	•	7440~39-3	 				-	4
7440-43-9 Cadmium 1390 P 1500 U # 7440-70-2 Calcium 1390 P 1500 U # 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-92-1 Lead 7439-95-4 Magnesium 646.								
T440-70-2 Calcium 1390 P 1500 U T440-47-3 Chromium T440-48-4 Cobalt T440-50-8 Copper T439-89-6 Iron 218000 D P T439-99-6 Iron 218000 D P T439-95-4 Magnesium 646. J P 1500 U M T439-96-5 Manganese T439-97-6 Mercury T440-02-0 Nickel T440-02-0 Nickel T440-02-0 Nickel T440-02-0 Silver T440-22-4 Silver T440-22-4 Silver T440-23-5 Sodium 38.4 J E F 1500 U M T440-66-6 Zinc			· · · · · · · · · · · · · · · · · · ·					1
7440-48-4 Cobalt				1200	<u> </u>			- 7
7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-95-1 Lead 7439-95-4 Magnesium 646. J P 7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Nickel 7440-09-7 Potassium 514. J P 7782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 38.4 J E P 7440-28-0 Thallium 7440-66-6 Zinc 57-12-5 Cyanide Plor Before: RED Clarity Before: Texture: MEDIUM Clarity After: CLEAR Artifacts:				1390			P	1500 0
7440-50-8 Copper 7439-89-6 Iron 218000 D P 7439-92-1 Lead 7439-95-4 Magnesium 646. J P 7439-97-6 Mercury 7440-02-0 Nickel 7482-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 38.4 J E P 7440-28-0 Thallium 7440-66-6 Zinc 7440-66-6 Zinc 57-12-5 Cyanide Artifacts: **Medium** Texture: Medium** **Medium** Texture: Medium** **Medium** Texture: Medium** **Medium** Texture: Medium** Texture: Medium** **Medium** Texture: Medi								
T439-89-6								
T439-92-1 Lead T439-95-4 Magnesium 646. J P 1500 U T439-96-5 Manganese T439-97-6 Mercury T440-02-0 Nickel T440-09-7 Potassium 514. J P 1600 U T782-49-2 Selenium T440-22-4 Silver T440-23-5 Sodium 38.4 J E P 1500 U T440-28-0 Thallium T440-62-2 Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium Value Vanadium Value Vanadium Value Valu							1	
T439-95-4 Magnesium 646.				218000		D	P	
7439-97-6 Mercury								1 -2.
7439-97-6 Mercury				646.	J		P	1500 U
7440-02-0 Nickel 7440-09-7 Potassium 514. J P 1500 U 7782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 38.4 J E P 1500 U 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide lor Before: RED Clarity Before: Texture: MEDIUM lor After: YELLOW Clarity After: CLEAR Artifacts:								W. Variation on a straight of the control of the co
7440-09-7 Potassium 514. J P 1500 U M 7782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 38.4 J E P 1500 U M 7440-28-0 Thallium 7440-66-6 Zinc 57-12-5 Cyanide Alor Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:							<u> </u>	
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:	:							_ ر
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:			Potassium	514.	J		P	15M 1) 12
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:	. [7782-49-2	Selenium				 	,,,,,,
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:	L	7440-22-4	Silver				 	_
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:	Į	7440-23-5	Sodium	38.4	ī	E	- D	1500 11 W
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:		7440-28-0	Thallium		-		 - -	1500 0
for Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts: mments:		7440-62-2	Vanadium				 	2/10/11
hor Before: RED Clarity Before: Texture: MEDIUM lor After: YELLOW Clarity After: CLEAR Artifacts:		7440-66-6	Zinc				 	Miola
lor Before: RED Clarity Before: Texture: MEDIUM Lor After: YELLOW Clarity After: CLEAR Artifacts:	. [57-12-5	Cyanide					
Numerts: YELLOW Clarity After: CLEAR Artifacts:	ſ		-					
lor After: YELLOW Clarity After: CLEAR Artifacts:		··						
lor After: YELLOW Clarity After: CLEAR Artifacts:	<u>.</u>							
lor After: YELLOW Clarity After: CLEAR Artifacts:	lor Bef	ore: RED	Clarity	Before:	·	Texture: ME	DIUM	
nments:	lor Aft	er: YELLOW	Clarity	After: CLEAR		Artifacts:		
E: The reported value is estimated due to the presence of interference.	mments:							
The reported value is estimated due to the presence of interference.		renorted	lue is atti-	4 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m		_		
	1116	Toborcea As	THE TO ESTIMP	red due to the I	reser	ce of interi	erenc	e.
								· · · · · · · · · · · · · · · · · · ·
			·				<u> </u>	
								

EPA SAMPLE NO.

MH35H0

trix:	Soil		Lab Sample	ID:	1030769008		·
Solids			Date Recei	ved:	11/03/2010		
SOTIOS	44.0		2400 41111				····
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): n	ng/kg		.
	CAS No.	Analyte	Concentration	C	Ω	М	
	7429-90-5	Aluminum		<u>:</u>			- 7
	7440-36-0	Antimony	2.3		N	MS	I TO THE
	7440-38-2	Arsenic	23.2	ļ.,	E	MS	٦ , -
	7440-39-3	Barium	46.5			MS	1
	7440-41-7	Beryllium	0.37	J	Е	MS	11101
	7440-43-9	Cadmium	2.4		E	MS	1 7 7
	7440-70-2	Calcium					- 7
	7440-47-3	Chromium	4.0		Е	MS	70.7
ne en en en en en en en en en en en en e	7440-48-4	Cobalt		J		MS	1 1 1 1 2.20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7440-50-8	Copper	112.		Ε.	MS	-1 (
·	7439-89-6	Iron				<u> </u>	_
	7439-92-1	Lead	457.			MS	
	7439-95-4	Magnesium					
	7439-96-5	Manganese	239.		E	MS	J 111 UJ
	7439-97-6	Mercury					
	7440-02-0	Nickel	1.1		E	MS-	1.1-03
	7440-09-7	Potassium					5,6 UJ
	7782-49-2	Selenium	0.83	J	И	MS	5,601
	7440-22-4	Silver	3.9		N	MS	1
	7440-23-5	Sodium					1.101
	7440-28-0	Thallium	0.11	J		MS	1,104
	7440-62-2	Vanadium	31.7	<u> </u>		MS	- 7
	7440-66-6	Zinc	1040		DNE	MS	J- 2/1
	57-12-5	Cyanide				ļ	2/1
							
						<u> </u>	」 ,
lor Be	fore: RED	Clari	ty Before:		Texture: M	EDIUM	<u> </u>
			ty After: CLEAR				
,	<u> </u>		<u></u>				

LPA	SAMELE	NO.
	мнз5но	

					1	1H35H0	
Lab Name	e: ALS Labora	atory Group	Contract:	EPW09036			
Lab Code	e: DATAC C	Case No.: 4075	Mod. Ref.	No.:	SDG No	.: MH35	5G5
Matrix:	Soil		Lab Sample	ID: 10307	69008		·····
% Solids	3: 44.8		Date Recei	ved: 11/03	/2010		
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): mg/kg		<u>-</u>	
	CAS No.	Analyte	Concentration	l c l	Q	М	
•	7429-90-5	Aluminum	4670	<u> </u>		P	
•	7440-36-0	Antimony					
	7440-38-2	Arsenic					
	7440-39-3	Barium					
	7440-41-7	Beryllium					
	7440-43-9	Cadmium					
	7440-70-2	Calcium	1130	<u> </u>		P	
	7440-47-3	Chromium				- -	
	7440-48-4	Cobalt					
	7440-50-8	Copper	100-100 100 100 100 100 100 100 100 100				
	7439-89-6	Iron	442000		D	P	
•	7439-92-1	Lead			_		-24
	7439-95-4	Magnesium	791.		-	P 1	120,071
	7439-96-5	Manganese				' '	. ,
	7439-97-6	Mercury					
: •	7440-02-0	Nickel					-74
	7440-09-7	Potassium	504.	J		P //	200 H 1200 H 2/18/11
* * .	7782-49-2	Selenium				''	
	7440-22-4	Silver			·		-W.
	7440-23-5	Sodium	33.9	J	E	P /	1200
	7440-28-0	Thallium					-1-1
	7440-62-2	Vanadium					2/18/4
	7440-66-6	Zinc					•
	57-12-5	Cyanide			-		
İ					· · · · · · · · · · · · · · · · · · ·		•
Color Bei	fore: <u>RED</u>	Clarit	y Before:	Tex	ture: MED	IUM	
Color Aft	er: YELLOW	Clarit	y After: CLEAR	Art	ifacts:		
							
Comments:							
E: The	reported va	alue is estima	ated due to the	presence o	f interfe	rence.	
							

EPA	SAMPLE	NO.
	MH35H1	

Lab Name		· ·					
	: ALS Labora	atory Group	Contract:	EPW09	036		<u> </u>
ab Code	: DATAC	Case No.: 4075	Mod. Ref.	No.:	SDG	No.: 1	MH35G5
fatrix:	Soil_	· · · · · · · · · · · · · · · · · · ·	Lab Sample	ID:	1030769009		
Solids	: 31.6		Date Recei	ved:	11/03/2010		
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mo	n/ka		
	CAS No.	Analyte	Concentration	С	Q	М]
•	7429-90-5	Aluminum			~		
	7440-36-0	Antimony	0.46	J	N	MS	3,205 7 1,605 7 1,605 7
	7440-38-2	Arsenic	57.5			MS	77
	7440-39-3	Barium	200.			MS	- 1
	7440-41-7	Beryllium	1.1	J	E	MS	16UT7
	7440-43-9	Cadmium	1.1	J.	E	MS	コンハテア
	7440-70-2	Calcium				 	11000
	7440-47-3	Chromium	11.9		E	MS	J K
	7440-48-4	Cobalt	23.7			MS	
	7440-50-8	Copper	250.		E	MS	Jn
	7439-89-6	Iron					1
	7439-92-1	Lead	1460		D	MS	1
	7439-95-4	Magnesium					_ 1/2
	7439-96-5	Manganese	2360		DE	MS	T
	7439-97-6	Mercury					a a
	7440-02-0	Nickel	12.3		E	MS	I M
	7440-09-7	Potassium					7
	7782-49-2	Selenium	1.3	J	N	MS	7.901
	7440-22-4	Silver	1.4	J	N	MS	7.905
	7440-23-5	Sodium					_ 7/
	7440-28-0	Thallium	0.77	J		MS	1.605 M
	7440-62-2	Vanadium	62.0			MS	ريد ا
	7440-66-6	Zinc	378.		NE	MS	J- ",
	57-12-5	Cyanide				<u> </u>	J- 2/18/11
	· · · · · · · · · · · · · · · · · · ·					<u> </u>	
						J]
olor Bei	fore: BLACK	.Clarit	y Before:		Texture: M	EDIUM	
olor Aft	er: YELLOW	Clarit	y After: CLEAR		_ Artifacts:		
'ommente:	-						
Comments:						<i>c</i>	
E: The	reported v	arue is estim	ated due to the	prese	nce of inter	reren	ce.

EPA	SAMPLE	NO.
	мн35н1	

latrix:	Soil		Lab Sample	ID: <u>10</u>	30769009		
Solids	: 31.6		Date Recei	ved: <u>11</u>	./03/2010		<u> </u>
concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): mg/	'kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	8140			P	
	7440-36-0	Antimony					
•	7440-38-2	Arsenic				_	·
	7440-39-3	Barium					
	7440-41-7	Beryllium					
	7440-43-9	Cadmium					
	7440-70-2	Calcium	1940			P]
	7440-47-3	Chromium					<u> </u>
	7440-48-4	Cobalt					
	7440-50-8	Copper					
	7439-89-6	Iron	65400			P	
	7439-92-1	Lead					
	7439-95-4	Magnesium	2260			P]
	7439-95-5	Manganese					
	7439-97-6	Mercury					
•	7440-02-0	Nickel					The Tree
	7440-02-0	Potassium	817.	J		P] 1580 U
	7782-49-2	Selenium	· · · · · · · · · · · · · · · · · · ·				1580 U 1580 U 2/18/11
	7440-22-4	Silver					7
		Sodium	44.5	J	E	P	1580 0
	7440-23-5	Thallium	2.1,0				2/18/4
	7440-28-0	Vanadium		1 ~ 1			7 ///
	7440-62-2			1			1
	7440-66-6	Zinc Cyanide		+			1
	57-12-5	Cyanide		╫┈┼			1
		_		╁╌╌┟╌			1
		<u> </u>		<u> </u>			-
	a promi	Clari	ty Before:		Texture:	MEDIUM	<u> </u>
Color Re	erore: BROWN				_		
Color Ai	fter: YELLOW	Clari	ty After: CLEAR	L	_ Artifact:	s:	······································
COTOT 177	.cox. <u>x2====</u>						

EPA	SAMPLE	NO.
	MH35H2	,

						мн35	H2
Lab Name	e: ALS Labor	atory Group	Contract:	EPW09	9036		
Lab Code	e: DATAC	Case No.: 4075	Mod. Ref.	No.:	SDG	No.:	MH35G5
Matrix:	Soi1	····	Lab Sample	e ID:	1030769010		
% Solids	s: 36.4		Date Recei	.ved:	11/03/2010		
Concenti	ration Units	(ug/L, ug or	mg/kg dry weigh	nt): m	ıg/kg		
	CAS No.	Analyte	Concentration	С	Q	М]
	7429-90-5	Aluminum					1 2
	7440-36-0	Antimony	0.65	J	N	MS	2.7UT
	7440-38-2	Arsenic	15.2		E	MS	7 1
	7440-39-3	Barium	71.6	<u> </u>		MS	- →
	7440-41-7	Beryllium	0.33	J	E	MS	1,405 M
	7440-43-9	Cadmium	0.58	J	E	MS	1.405 1
,	7440-70-2	Calcium					10
•	7440-47-3	Chromium	6.4		E	MS	J 7
	7440-48-4	Cobalt	6.8		_	MS	
	7440-50-8	Copper	124.		E	MS	J W
	7439-89-6	Iron				-	~
	7439-92-1	Lead	341.			MS	
	7439-95-4	Magnesium				 	
	7439-96-5	Manganese	2010		DE	MS	T # -
	7439-97-6	Mercury				110	1 -
1	7440-02-0	Nickel	2.2		E	MS	T 7
	7440-09-7	Potassium				120	
	7782-49-2	Selenium	0.83	J	N	MS	19117 1
	7440-22-4	Silver	4.0		N N	MS	The
	7440~23~5	Sodium				130	7
	7440-28-0	Thallium	0.33	J		MS	1.405
	7440-62-2	Vanadium	27.3			MS	1170-
	7440-66-6	Zinc	242.		NE	MS	J- n 2/18/11
	57-12-5	Cyanide			ME	140	1 1 1
•		Gyaniae					માકામ
:							
		<u> </u>			 -		
Color Be	fore: BROWN	Clarit	y Before:		Texture:	MEDIUM	· · · · · · · · · · · · · · · · · · ·
Color Af	ter: YELLOW	Clarit	y After: <u>CLEAR</u>		Artifacts	:	
omments	•	•					
		alua is osti-	atod duo to the	n			
<u> </u>	reported v	arue is estima	ated due to the	prese	ence or inte	rieren	ce.
							. —

EPA	SAMPLE	NO.

		
]	MH35H2	

					MH35	H2		
Lab Name	e: ALS Labora	tory Group	Contract:	EPW09036				
Lab Code	e: DATAC C	Case No.: 407	55 Mod. Ref.	Ref. No.: SDG No.: MH35G5				
Matrix:	Soil		Lab Sample	ID: <u>103076</u> 9	010			
% Solids	s: <u>36.4</u>		Date Recei	ved: <u>11/03/2</u>	010			
Concenti	cation Units	(ug/L, ug or	mg/kg dry weigh	nt): mg/kg				
	CAS No.	Analyte	Concentration	C Q	м			
	7429-90-5	Aluminum	4940		P	1		
	7440-36-0	Antimony				•		
	7440-38-2	Arsenic				†		
	7440-39-3	Barium				1		
	7440-41-7	Beryllium						
	7440-43-9	Cadmium				۱		
	7440-70-2	Calcium	1330		P	1370 U TA		
	7440-47-3	Chromium	1330			19100		
•	7440-48-4	Cobalt						
	7440-50-8	Copper	1	*** * * * * * * * * * * * * * * * *	, and Alieur an expense which have the	the effective and effective fit of the effective con-		
	7439-89-6	Iron	159000					
	7439-92-1		133000	D	P			
	<u> </u>	Lead	1150			127		
	7439-95-4	Magnesium	1150		P	13700		
	7439-96-5	Manganese						
	7439-97-6	Mercury	· · · · · · · · · · · · · · · · · · ·					
11.75	7440-02-0	Nickel				127217		
	7440-09-7	Potassium	729.	J	P	13100		
	7782-49-2	Selenium				j		
	7440-22-4	Silver				1000 T		
	7440-23-5	Sodium	53.0	J E	P	13/00		
	7440-28-0	Thallium				1370 0 H 1370 0 H 2/18/11		
	7440~62-2	Vanadium				2/18/11		
	7440-66-6	Zinc						
	57-12-5	Cyanide						
•						1 .		
						 		
						•		
Color Be	fore: BROWN	Clarit	y Before:	Text	re: MEDIUM	•		
7_1 <i>N &</i>	L - UDI I OII	· · ·	7.51					
COTOL WI	ter: YELLOW	Clarit	y After: CLEAR	Artii	facts:			
Comments				•				
			1.4.4 1 11					
E: The	reported va	ilue is estim	ated due to the	presence or	interferen	ce.		
						_		

MH35H3	

	tory Group	Contract: E	EPW09	036		•
DATAC C	ase No.: 4075			SDG	No.: M	H35G5
2011		•				-
78.4		Date Recei	ved:	11/03/2010		
	0	•				• •
tion Units	(ug/L, ug or	mg/kg dry weigh	t): m	g/kg		
	£				T.,]
CAS No.	Analyte	Concentration	·C	Q	M	_
7429-90-5	Aluminum					1.305
7440-36-0	Antimony		J			7 7
7440-38-2	Arsenic	26.2		E		1 -7
7440-39-3	Barium	51.8			MS	0.64057
7440-41-7	Beryllium	0.23	J	E	MS	0.6401
7440-43-9	Cadmium	0.51	J	E	MS	0,6405
7440-70-2	Calcium					J 7
7440-47-3	Chromium	9.1		Е	MS	17
7440-48-4	Cobalt	4.3			MS	- m
	Copper	42.8		E	MS	J
	Iron					
	Lead	294.	l		MS	
	<u> </u>					
		624.		DE	MS	J T
						J
		4.1		E	— MS-	17 /
						3,205
		0.92	J	N	MS	3,20 3
		0.88		N	MS	1500
						
		0.23	J		MS	0.6405
	<u></u>	29.1			MS	-nu
		145.		NE	MS	7.7- ~
						J- 70 2/18
J1 12 J	Ojunzuo					
			1]
	<u>.</u>					_
fore: YELLOW	. Clarit	y Before:		Texture:	MEDIUM	1
		- CLEAD		Artifoats	, .	· · · · · · · · · · · · · · · · · · ·
er: COLORLE	ESS Clarit	y After: CLEAR	·	ALCELACES	" —	
:	سفيدا دفاليون	n+ad due +e +be	nree	sence of inte	rfere	nce.
reported v	alue is estim	lared due to the	- Line	JULIOU OL MILLO		
	,					
	CAS No. 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-22-4 7440-23-5 7440-23-5 7440-23-5 7440-66-6 57-12-5 Fore: YELLOW	Table 1	T8.4 Date Receivable Concentration CAS No. Analyte Concentration 7429-90-5 Aluminum 7440-36-0 Antimony 0.20 7440-38-2 Arsenic 26.2 7440-39-3 Barium 51.8 7440-41-7 Beryllium 0.23 7440-43-9 Cadmium 0.51 7440-70-2 Calcium 7440-47-3 Chromium 9.1 7440-48-4 Cobalt 4.3 7440-50-8 Copper 42.8 7439-92-1 Lead 294. 7439-95-4 Magnesium 7439-95-5 Manganese 624. 7440-02-0 Nickel 4.1 7440-02-0 Nickel 4.1 7440-23-5 Sodium 7440-22-4 Silver 0.88 7440-23-5 Sodium 7440-66-6 Zinc 145. Eore: YELLOW Clarity Before: Eore: YELLOW Clarity After: CLEAR	Tas. 4 Date Received: tion Units (ug/L, ug or mg/kg dry weight): m CAS No. Analyte Concentration C 7429-90-5 Aluminum 7440-36-0 Antimony 0.20 J 7440-38-2 Arsenic 26.2 7440-39-3 Barium 7440-41-7 Beryllium 0.23 J 7440-43-9 Cadmium 0.51 J 7440-47-3 Chromium 9.1 7440-48-4 Cobalt 4.3 7440-50-8 Copper 42.8 7439-92-1 Lead 294. 7439-95-4 Magnesium 7439-95-4 Magnesium 7439-96-5 Manganese 624. 7440-02-0 Nickel 4.1 7440-02-0 Nickel 4.1 7440-22-4 Silver 0.88 7440-22-4 Silver 0.88 7440-22-5 Sodium 7440-66-6 Zinc 145. 57-12-5 Cyanide Ter: COLORLESS Clarity After: CLEAR	T8.4 Date Received: 11/03/2010 tion Units (ug/L, ug or mg/kg dry weight): mg/kg CAS No. Analyte Concentration C Q 7429-90-5 Aluminum 7440-36-0 Antimony 0.20 J N 7440-38-2 Arsenic 26.2 E 7440-39-3 Barium 51.8 7440-41-7 Beryllium 0.23 J E 7440-43-9 Cadmium 7440-47-3 Chromium 9.1 E 7440-47-3 Chromium 9.1 E 7440-48-4 Cobalt 4.3 7440-50-8 Copper 42.8 E 7439-89-6 Iron 7439-92-1 Lead 294. 7439-95-4 Magnesium 7439-95-4 Magnesium 7440-02-0 Nickel 4.1 E 7440-02-0 Nickel 4.1 E 7440-02-0 Nickel 4.1 E 7440-23-5 Sodium 0.92 J N 7440-23-5 Sodium 0.92 J N 7440-23-5 Sodium 0.92 J N 7440-23-5 Sodium 0.92 J N 7440-23-5 Sodium 0.92 J N 7440-23-5 Cyanide	T8.4 Date Received: 11/03/2010 tion Units (ug/L, ug or mg/kg dry weight): mg/kg CAS No. Analyte Concentration C Q M 7429-90-5 Aluminum 7440-36-0 Antimony 0.20 J N MS 7440-33-2 Arsenic 26.2 E MS 7440-39-3 Barium 51.8 MS 7440-41-7 Beryllium 0.23 J E MS 7440-41-7 Beryllium 0.51 J E MS 7440-47-3 Cadmium 9.1 E MS 7440-47-3 Chromium 9.1 E MS 7440-48-4 Cobalt 4.3 MS 7440-48-4 Cobalt 4.3 MS 7439-92-1 Lead 294. MS 7439-92-1 Lead 294. MS 7439-95-4 Magnesium MS 7439-95-6 Manganese 624. DE MS 7439-97-6 Mercury 7440-02-0 Nickel 4.1 E MS 7440-09-7 Potassium 0.92 J N MS 7440-23-5 Sodium 0.23 J MS 7440-23-5 Sodium 0.23 J MS 7440-23-5 Sodium 0.23 J MS 7440-23-5 Sodium 0.23 J MS 7440-23-5 Sodium 0.23 J MS 7440-23-5 Cyanide Texture: MEDIUM Sore: YELLOW Clarity Before: Texture: MEDIUM Sore: YELLOW Clarity After: CLEAR Artifacts:

EPA	SAMPLE	NO.		
	мизьиз			

b Code:	DATAC (atory Group	Contract:	EPW0	9036		
trix:		Tage No • 407					
		2036 NO. 1 407.	Mod. Ref	No.:		SDG No.:	MH35G5
7075400	Soil		Lab Sampl	e ID:	10307690	11	
OTTOS:	78.4		Date Rece	ived:	11/03/20	10	•
ncentra	tion Units	(na/L. na or	mg/kg dry weig	nht) : r	ma/ka		
Γ	CAS No.		T		<u> </u>		·
L		Analyte	Concentration	C	Q	М	
-	7429-90-5	Aluminum	9330		ļ	Р	
<u> </u>	7440-36-0	Antimony			<u> </u>		
. –	7440-38-2	Arsenic					
	7440-39-3	Barium			<u> </u>		
ļ-	7440-41-7	Beryllium					
<u> </u>	7440-43-9	Cadmium					
· -	7440-70-2	Calcium	1710			P	
Ľ	7440-47-3	Chromium		_			
Ŀ	7440-48-4	Cobalt]
	7440-50-8	Copper					7
7	7439-89-6	Iron	18200			P	7
	7439-92-1	Lead					
	7439-95-4	Magnesium	8680			Р	_
	7439-96-5	Manganese		 ~-			┥ . ・
•	7439-97-6	Mercury		 	 -		
· · -	7440-02-0	Nickel		+			
	7440-09-7	Potassium	297.	J		P	12811
	7782-49-2	Selenium	2774	+			638 U 638 U 2/U
-	7440-22-4	Silver		 	<u> </u>		
	7440-23-5	Sodium	20.8	J	. 72	P	- 1 x 10 11
	7440-28-0	Thallium	20.0		· E		16380.
<u> </u>	7440-62-2	Vanadium					- 2/1
. –	7440-66-6						-ll.
		Zinc		-			4
- 🖹	57-12-5	Cyanide	· · · · · · · · · · · · · · · · · · ·	-			4
<u> </u>	· · · · · · · · · · · · · · · · · · ·			ļ			_
. L	· · · · · · · · · · · · · · · · · · ·						
ar Befo	ore: ORANGE	Clarit	y Before:		Textur	e: COARS	Ē
			y After: CLEAN				
J. AILUC	<u> </u>	Crarro	A WICEI: CHEWI		wrrits		
ments:							
		alme is estim	ated due to the	nree	ence of i	nterfera	ກຕອ
		TO COULIN	acou due to till	Pres		TICETTETE	1106.

_EPA	SAMPLE	NO.
	MH35H4	

	,					MH35	H4
Lab Name	e: ALS Labor	ratory Group	Contract:	EPWO:	9036		
Lab Code	e: DATAC	Case No.: 4075	Mod. Ref.	No.:	SDG No.: MH35G5		
Matrix:	Matrix: Soil			e ID:	1030769012		
% Solids	s: <u>35.4</u>		Date Recei	ved:	11/03/2010		
Concenti	ration Units	s (na/L. na or	mg/kg dry weigh	n +) • π	na /ka	•	
	CAS No.			Т	1	T ,,	1
	7429-90-5	Analyte	Concentration	C	Q	М	.
	7429-90-5	Aluminum	0.34	 _	 		2 DUT 70
	7440-38-2	Antimony Arsenic	0.74	J	И	MS	2.805 M
	7440-38-2	Barium	20.5 61.9		E	MS	1 7
	7440-41-7	Beryllium	0.41	J	E	MS	LINE H
	7440-43-9	Cadmium	0.50	J	E	MS	1,401
	7440-70-2	Calcium	0.30	 		Mo	1.405 %
	7440-47-3	Chromium	4.3	 	E	MS	7 n
	7440-48-4	Cobalt	6.0	 		MS	1 1
	7440-50-8	Copper	84.0		E	MS	J n
	7439-89-6	Iron	0710		E	Mo	1 1 "
	7439-92-1	Lead	362.	 -		MS	1 .
	7439-95-4	Magnesium	302.	 -		193	
	7439-96-5	Manganese	1910		DE	MS	J 7
1944	7439-97-6	Mercury	1910	ļ <u> </u>	DIS	143	7
	7440-02-0	Nickel	1.6		E	MS	- 7
	7440-09-7	Potassium	2.0		<u> </u>	113	
	7782-49-2	Selenium	0.69	J	N	MS	7.105 M
	7440-22-4	Silver	2.3	· <u> </u>	N N	MS	1.103
	7440-23-5	Sodium	2.3		P	Ma	1 1/2
•	7440-28-0	Thallium	0.33	J		MS	1,405 7
•	7440-62-2	Vanadium	29.7			 -	11401
	7440-66-6	Zinc	240.		NE	MS	J- 2/18/4
	57-12-5	Cyanide	240.		NG.	M.S.	1-
	37-12-3	Cyanite				<u> </u>	2/18/14
					<u></u>	<u> </u>	
olor Be	fore PROMN	Clarit	v Pofere		Mouture M	207104	J
OTOL DE	TOTE. BROWN	Claric	y Before:		rexture: M	POTOM	
Color Af	ter: YELLOW	Clarit	y After: <u>CLEAR</u>	<u>-</u> .	Artifacts:		
Comments	:						
		alue is estima	ated due to the	Dree	ence of inter	feren	70
	- Lopolica V	CALGO TO COUTIN	reca and to the	Pres	ence or inter.	Ter GII	· · · · · · · · · · · · · · · · · · ·
				••			

EPA SAMPLE NO. MH35H4

			Contract: I		SDG No.: MH35			
Matrix:			Lab Sample					-
% Solids	: 35.4		Date Recei	ved: <u>11</u>	/03/2010			-
		•						
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): mg/	кg		•	
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	4520			P		
	7440-36-0	Antimony						
	7440-38-2	Arsenic						
	7440-39-3	Barium						
	7440-41-7	Beryllium						
	7440-43-9	Cadmium				P	1410	D Z
	7440~70-2	Calcium	1110	 -		- 	, ,,,	
	7440-47-3	Chromium		 				:
	7440-48-4	Cobalt						
	7440-50-8	Copper	203000		D	P	1	
	7439-89-6	Iron	203000				1	-21
	7439-92-1	Lead	941.	J		P	1410	v^n
	7439-95-4	Magnesium Manganese	771.				••	
	7439-96-5 7439-97-6	Mercury						
4	7440=02-0	Nickel						K
*	7440-02-0	Potassium	730.	J		P	1410	D'
	7782-49-2	Selenium	-					
	7440-22-4	Silver						" K
	7440-23-5	Sodium	73.1	J	E	P	1410	0
	7440-28-0	Thallium					1410 1410	118/W
	7440-62-2	Vanadium						<i>.</i>
	7440-66-6	Zinc					_	
	57-12-5	Cyanide				_ _		
							_]	
Color Be	fore: RED	Clari	ty Before:		Texture:	MEDIUM	1	_
			ty After: CLEAR		- Artifacts	s:		_
COTOL AT	ter: YELLOW		<u> </u>		-			
Comments	. ,		mated due to the	nrese	nce of inte	erferer	nce.	
E: The	e reported .	varue is esti	mated due to the	Prose				_

EPA	SAMPLE	NO.		
	MILDETTE			

						мнз	5н5
Lab Name	e: ALS Labor	atory Group	Contract:	EPW09	9036	***************************************	
Lab Code	e: DATAC	Case No.: 407!	Mod. Ref.	No.:		SDG No.:	MH35G5
Matrix:	Soil		Lab Sample	: ID:	10307690	13	
% Solids	s: <u>45.3</u>		Date Recei	ved:	11/03/20	10	
Concenti	ration Units	(ug/L, ug or	mg/kg dry weigh	nt): m	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	М	7
	7429-90-5	Aluminum					رــ ا
	7440-36-0	Antimony	. 0.47	J	N	MS	122 NT 72
	7440-38-2	Arsenic	20.3	<u> </u>	E	MS	2.2 UJ 72
	7440-39-3	Barium	142.			MS	1 .
	7440-41-7	Beryllium	0.44	J	E	MS	111 05 7
	7440-43-9	Cadmium	0.70	J	E	MS	
	7440-70-2	Calcium				MO	11102 2
	7440-47-3	Chromium	6.4		E	MS	T 21
	7440-48-4	Cobalt	3.2			MS	1 7
	7440-50-8	Copper	80.7		E		J 2
	7439-89-6	Iron			E .	MS	
	7439-92-1	Lead	875.			740	4
	7439-95-4	Magnesium	073.		D	MS	4
	7439-96-5	Manganese	659.				- 4
	7439-97-6	Mercury	0.03.			MS .	J
٠.	7440-02-0	Nickel	2 0				1
	7440-09-7	Potassium	2.9		E	MS	1 7
	7782-49-2	Selenium					11
	7440-22-4		1.6	J	N	MS	5,5 UT n
		Silver	2.3		<u> </u>	MS	J ~
	7440-23-5 7440-28-0	Sodium					1
		Thallium	0.61	J		MS	1.1 UJ 4
-	7440-62-2	Vanadium	62.0			MS	1
1	7440-66-6	Zinc	206.		NE	MS	J- 2/18/U
-	57-12-5	Cyanide					aliale
							\ ~!\8!u
Į.		<u> </u>]
Color Bef	fore: ORANGE	Clarit	y Before:		Textur	e: MEDIUM	
			y After: CLEAR				
comments:		4					
		alue is estima	ted due to the p	prese	nce of i	nterferen	ce.
							

EPA	SAMPLE	NO.
	мнз5н5	

					Pi	135H5
Lab Name	e: ALS Labora	atory Group	Contract:	EPW09036		
Lab Code	e: DATAC (Case No.: 4075	5 Mod. Ref.	No.:	_ SDG No.	: MH35G5
Matrix:	Soil		Lab Sample	ID: <u>10</u> 3076	9013	
% Solids	s: <u>45.3</u>		Date Recei	.ved: 11/03/	2010	
Concentr	ation Units	(ug/L , ug or	mg/kg dry weigh	nt): mg/kg		
	CAS No.	Analyte	Concentration	c ·	Q	M
	7429-90-5	Aluminum	6730			P
	7440-36-0	Antimony				
	7440-38-2	Arsenic				
	7440-39-3	Barium		 		
	7440-41-7	Beryllium		 		
	7440-43-9	Cadmium			 -	
	7440-70-2	Calcium	859.	 		P 1100 U
	7440-47-3	Chromium				1100
	7440-48-4	Cobalt				
	7440-50-8	Copper				<u> </u>
	7439-89-6	Iron	7.44000			
		Lead	144000		D	P
	7439-92-1	1				
	7439-95-4 .	Magnesium	2820			P
	7439-96-5	Manganese				
	7439-97-6	Mercury				<u> </u>
1.4.	7440-02-0	Nickel				
	7440-09-7	Potassium	1250			P J+ M
-	7782-49-2	Selenium				
	7440-22-4	Silver				-2
į	7440-23-5	Sodium	102.	J I	E :	P 1100 U
	7440-28-0	Thallium				1100 U 2 2/18/11
	7440-62-2	Vanadium		****		2/18/4
	7440-66-6	Zinc				
	57-12-5	Cyanide				
					-	
•		<u> </u>				_
olor Be	fore: ORANGE	Clarity	Before:	Text	ure: MEDI	UM
olor Aft	er: YELLOW	· Clarity	After: CLEAR	Arti	facts:	
omments:		1,00 10 0-1-1				
r: Ine	reported As	itue is estima	ted due to the	presence of	interfer	ence.
·						
						

EPA	SAMPLE	NO.		
	MU35U6			

		atory Group Case No.: 4075	5 Mod. Ref.	ov	SDG N	lo.: M	H35G5
Matrix:	Soil		Lab Sample	ID:	1030769014		
% Solids	: 36.4		Date Recei	ved:	11/03/2010		-
	ı						
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): I	ng/kg		1
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum					22117
	7440-36-0	Antimony	1.6	J	N	MS	2.701
	7440-38-2	Arsenic	35.6		E	MS	I n
	7440-39-3	Barium	85.9			MS	1.405
	7440-41-7	Beryllium	0.52	J	E	MS	1.401
	7440-43-9	Cadmium	2.7		E	MS	Jn
	7440-70-2	Calcium				<u> </u>	- n
	7440-47-3	Chromium	8.0		E	MS	J
a a ha	7440-48-4	Cobalt	4.7			MS	- n
	7440-50-8	Copper	212.		E	MS]]
	7439-89-6	Iron					_
	7439-92-1	Lead	2050		D	MS	
	7439-95-4	Magnesium		···			7.2
	7439-96-5	Manganese	1300		DE	MS	J
٠	7439-97-6	Mercury					+ 24
<u> </u>	7440-02-0	Nickel	2.5		Е	MS-	
	7440-02-0	Potassium					6.905
	7782-49-2	Selenium	1.1	J	N	MS	6.903
	7440-22-4	Silver	5.0		N	MS	1
	7440-22-4	Sodium] 2
		Thallium	0.41	J		MS	1.405
	7440-28-0	Vanadium	37.2	1		MS	J 2/18/
	7440-62-2	Zinc	628.	1	NE	MS	T T
	7440-66-6		020	╁			aliel
	57-12-5	Cyanide	<u> </u>	+			7/0/
				 			7
	<u></u>	<u> </u>	J	1		<u> </u>	_
Color B	efore: ORANG	E Clari	ty Before:		Texture: M	EDIU	<u> </u>
Color A	fter: BROWN	Clari	ty After: CLEAF	<u> </u>	Artifacts	:	
_							
Comment	s:		mated due to the		sector of inte	rfere	nce.

EPA	SAMPLE	NO.
	MH35H6	

						MH3	5H6
b Name	: ALS Labora	atory Group	Contract:	EPWOS	9036		
b Code	: DATAC (Case No.: 4075	Mod. Ref.	No.:		SDG No.:	MH35G5
trix:	Soil	· · · · · · · · · · · · · · · · · · ·	Lab Sample	ID:	10307690	14	
Solids	: 36.4		Date Recei	.ved:	11/03/20	10	
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): n	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	5750		1	р	- ·
	7440-36-0	Antimony				 -	
	7440-38-2	Arsenic			<u> </u>		-
	7440-39-3	Barium	,				
	7440-41-7	Beryllium		 	 		
	7440-43-9	Cadmium			<u> </u>		-
	7440-70-2	Calcium	1270		<u> </u>	P	1370 U
	7440-47-3	Chromium				P	1310 0
	7440-48-4	Cobalt		ļ			-
	7440-50-8	Copper					
	7439-89-6	Iron	266000		D	P	
	7439-92-1	Lead	200000			P	_
	7439-95-4	Magnesium	2370				_
	7439-96-5	Manganese	2370			P	
	7439-97-6	Mercury					- -
ŀ	7440-02-0	Nickel					4
	7440-09-7	Potassium					
	7782-49-2		956.	J		P	1310 6
		Selenium				·	_
į.	7440-22-4	Silver		[• •		1370 U 1370 U 2/181
-	7440-23-5	Sodium	78.6	J	E	P	113/00
F	7440-28-0	Thallium			<u> </u>		2/181
- 1-	7440-62-2	Vanadium					_ <u>ֈ</u>
	7440-66-6	Zinc					_
	57-12-5	Cyanide					_
1						<u> </u>	_]
Ĺ							_
or Bef	ore: ORANGE	Clarit	y Before:		Textur	e: MEDIU	1
or ռf÷	OF VETTOR						
OT ATT	er: YELLOW	Clarity	y After: <u>CLEAR</u>		Artifa	cts:	
ments:							
	manamhad					_	
. rne	reported va	itue is estima	ted due to the	prese	ence of i	nterfere	nce.
	•						

EPA S	AMPLE	NO.
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						мн35	н8	
Lab Nam	e: ALS Labor	ratory Group	Contract:	EPW090	36			
Lab Code	e: DATAC	Case No.: 40	755 Mod. Ref.	No.: _	· .	SDG No.: N	4H35G5	
Matrix:	Soil		Lab Sample	iD; 1	10307690	15		
% Solid	s: <u>29.7</u>		Date Recei	.ved: _1	11/03/20	10		
Concent	ration Unit	s (ug/L, ug o	r mg/kg dry weigh	nt): mg	ŋ/kg	i e		
	CAS No.	Analyte	Concentration	С	Q	М]	
	7429-90-5	Aluminum					؍ ا	74
	7440-36-0	Antimony	5.6		N	MS	1 3	M
	7440-38-2	Arsenic	126.		Е	MS	1τ	H
	7440-39-3	Barium	21.4		-·	MS	1 7	
	7440-41-7	Beryllium	0.26	J	E	MS	גט דיו	$r \sim m$
	7440-43-9	Cadmium	0.12	J	E	MS	1.703	- 2
	7440-70-2	Calcium			·			
	7440-47-3	Chromium	7.4	 -	Е	MS	1 7	n
V 10 10 10 10 10 10 10 10 10 10 10 10 10	7440-48-4	Cobalt	1.1	J		MS	J 3.4 U	n
	7440-50-8	Copper	369		- Fr		Ţ	11
	7439-89-6	Iron					-	7
	7439-92-1	Lead	59.4	-	·	MS	<u> </u>	
	7439-95-4	Magnesium	33.4	 -		FI.5	'	
	7439-96-5	Manganese	130.	 	E	MS	1	N
1.	7439~97-6	Mercury	130.	 -	124	113	1-1	1
	7440-02-0	Nickel	1.1	J	Е	MS	1.701	r x
**************************************	7440-09-7	Potassium						
2	7782-49-2		2.4			MS	040	Th
	-,	Selenium	2.4	J	N N		3.70	- n
	7440-22-4	Silver	0.29	J	Ŋ	MS	8.40)
	7440-23-5	Sodium						
	7440-28-0	Thallium	0.070	J		MS	1.707	1
	7440-62-2	Vanadium	88.0			MS	-	n
	7440-66-6	Zinc	63.3		NE	MS	1-	_
	57-12-5	Cyanide					21	18/11
	<u> </u>				· · · · · · · · · · · · · · · · · · ·		,	
						<u></u>		
Color Be	fore: ORANG	E Clari	ty Before:		_ Textur	e: MEDIUM		
Color Af	ter: COLORL	ESS Clari	ty After: CLEAR		_ Artifa	icts:		
		•						
Comments	•					•		
E: The	e reported .	value is esti	mated due to the	prese	nce of i	nterferen	ce.	
			•					

EPA	SAMPLE	NO.
	мн35н8	

b Code	: DATAC C			SDG	No.: M	H35G5	
trix:	Soil		Lab Sample	ID: <u>1</u>	030769015		
Solids	: 29.7		Date Recei	ved: <u>1</u>	1/03/2010		
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): mg	/kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	4960			P	
	7440-36-0	Antimony					
	7440-38-2	Arsenic					<u>;</u>
	7440-39-3	Barium				_	_
	7440-41-7	Beryllium					
	7440-43-9	Cadmium	·				-
	7440-70-2	Calcium	1820			P	
	7440-47-3	Chromium					
	7440-48-4	Cobalt					
	7440-50-8	Copper	F10000		D	P	┪
	7439-89-6	Iron	519000	-		 -	
	7439-92-1	Lead	1460	 	-	P	16800
	7439-95-4	Magnesium	1400			-	1680 U
	7439-96-5	Manganese Mercury			 	_	1
<u></u>	7439-97-6 7440-02-0	Nickel					
	7440-02-0	Potassium	583.	J		P] 1680 0
	7782-49-2	Selenium].
	7440-22-4	Silver					
	7440-23-5	Sodium	141.	J	E	P	1680 U 1680 U 2/u
	7440-28-0	Thallium					1 2/18
	7440-62-2	Vanadium					1
	7440-66-6	Zinc			· · · · · · · · · · · · · · · · · · ·		-
	57-12-5	Cyanide				_	-
						_	╡.
				<u> </u>			
lor Be	efore: ORANG	E Clar	ity Before:		Texture:	COARSI	Ε
lor A	fter: YELLOW	Clar	ity After: CLEAR		Artifact	s:	
mment:	5 :	-1 da	mated due to the	nres	ence of inte	erfere	nce.
E: Th	e reported	value is esti	mated due to the	Pres.	<u> </u>		

T D A	SAMPLE	NΩ
WI II	CIMIL 1313	140.

мн35н9	

					<u>L</u>	MH35:	
Name	e: ALS Labora	atory Group	Contract:	EPW090	36		···
Code	e: DATAC (Case No.: 407	Mod. Ref.	No.: _	so	G No.: N	4H35G5
rix:	Soil		Lab Sample	ID: <u>1</u>	.030769016		
olids	s: <u>34.2</u>		Date Recei	ved: l	1/03/2010		
centi	ration Unit s	(ug/L, ug or	mg/kg dry weigh	ıt):πg	/kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum					
	7440-36-0	Antimony	1.2	J	N	MS	29 UT
	7440-38-2	Arsenic	43.9		E	MS	I N
	7440-39-3	Barium	3.5	J		MS	
	7440-41-7	Beryllium	1.2	J	E	MS	1.5 UT 7
	7440-43-9	Cadmium	0.74	J	E	MS	1.505
	7440-70-2	Calcium					1
	7440-47-3	Chromium	0.62	J	Е	MS	2905
	7440-48-4	Cobalt	0.62	J		MS	290 7
	7440-50-8	Copper	11.0		E	MS	J M
	7439-89-6	Iron					-
	7439-92-1	Lead	1740		D	MS	
	7439-95-4	Magnesium					
	7439-96-5	Manganese	107.		E	MS	工石
	7439-97-6	Mercury					
	7440-02-0	Nickel	0.59	J	E	MS	1.5 057
	7440-09-7	Potassium					7.3 UJ
	7782-49-2	Selenium	0.34	J	N	MS	7.3 UJ
	7440-22-4	Silver	0.88	J	N	MS	1.505
	7440-23-5	Sodium					(J. 2 0 14
	7440-28-0	Thallium	0.017	J		MS	1.5 05
	7440-62-2	Vanadium	12.4			MS	,,
	7440-66-6	Zinc	361.		NE	MS	T- 1
	57-12-5	Cyanide					I- # 2/18
							2/10
							
		<u></u>	[
r Be	fore: RED	Clarit	ty Before:		Texture:	MEDIUM	
or Af	ter: <u>COLORLE</u>	SS Clarit	ty After: <u>CLEAR</u>		$_{_}$ Artifact	:s:	
ents						_	-
: The	e reported v	alue is estim	ated due to the	prese	nce of int	erieren	ce.

EPA	SAMPLE	NO.
	MILDEITO	

ab Name	e: ALS Labor	atory Group	Contract:	EPWOS	 		
		Case No.: 4075					
000	D111110	case No 407.	Mod. Ref.	No.:	S	DG No.:	MH35G5
trix:	Soi1		Lab Sample	e ID:	103076901	6	
Solida	34.2	· .	Date Recei	ved:	11/03/201	0	
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt):π	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	М] •
	7429-90-5	Aluminum	3170			P	-
	7440-36-0	Antimony					·
	7440-38-2	Arsenic					1
	7440-39-3	Barium					1
	7440-41-7	Beryllium					1
	7440-43-9	Cadmium					1
	7440-70-2	Calcium	1490			P	-
	7440-47-3	Chromium				·· + · · -	
	7440-48-4	Cobalt					1
	7440-50-8	Copper					
	7439-89-6	Iron	445000		D	P	
	7439-92-1	Lead					_
	7439-95-4	Magnesium	327.	J		P	1460 U
	7439~96~5	Manganese					-
	7439-97-6	Mercury					
	7440-02-0	Nickel					•
	7440-09-7	Potassium	268	ு ர	oboutition of the Contract of	P	1460 U. T. 1460 U. T. 2/18/1
	7782-49-2	Selenium					11000
Į	7440-22-4	Silver					یں ا
· · · · · [7440-23-5	Sodium	28.6	J	E	P	1460 0
Ī	7440-28-0	Thallium					i 1
	7440-62-2	Vanadium					2/18/4
. [7440-66-6	Zinc					V. V.
Ţ	57-12-5	Cyanide		$\neg \neg$	·		
Ī					<u> </u>		•
Γ				- i			
or Bef	ore: ORANGE	Clarity	y Before:		Texture	: MEDIUM	
or Art	er: YELLOW	Clarity	After: CLEAR		_ Artifact	s:	
ments:							
		iluo da esta	4 - 3 - 3		_		•
1. THE	reborted As	itue is estima	ted due to the	prese	nce of int	erferen	ce

EPA SAMPLE NO.

мн35J0

b Code	: DATAC C	55 Mod. Ref. I	Mod. Ref. No.: SDG No.: MH350			H35G5		
trix:				ID:	1030769017	•		
			Date Recei	ved:	11/03/2010			
Solids	: 60.6		Da CO 2.000=	. •				_
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): n	ng/kg			
	CAS No.	Analyte	Concentration	C	Q	М		
	7429-90-5	Aluminum				MS	1.71	って
	7440-36-0	Antimony	0.29	J	N .	MS	1, 1, 1	7
	7440-38-2	Arsenic	33.3		E	MS	I	
	7440-39-3	Barium	92.7		 	MS	· 1 +	1
	7440-41-7	Beryllium	1.1		E	MS	17+	n
	7440-43-9	Cadmium	1.3		E	MO	-1	
	7440-70-2	Calcium			 	MS	ī	77
	7440-47-3	Chromium	7.6		E	MS		
	7440-48-4	Cobalt	16.5		<u>12</u>	MS	1	U
	7440-50-8	Copper	209.		<u>L</u>	MS	~	
	7439-89-6	Iron		ļ	l	MS	1	
	7439-92-1	Lead	711.	 	D	HO	1 .	
	7439-95-4	Magnesium				MS	1	-7
	7439-96-5	Manganese	4130		DE	rio	~	
	7439-97-6	Mercury				MS	1	a
	7440-02-0	Nickel	8.0					
	7440-09-7	Potassium		-	NY.	MS	4.1 6	ר ל
	7782-49-2	Selenium	0.32	J	N	MS	T T	12
	7440-22-4	Silver	2.1	-	- N	173	~ ~	_
	7440-23-5	Sodium		 _		MS	12.8	3 U J
	7440-28-0	Thallium	0.39	J		MS	10,0	- 0 -
	7440-62-2	Vanadium	64.1	 	NE	MS	∀ ~ −	7
	7440-66-6	Zinc	289.	-	ME		1 -	. 2/1
	57- 12- 5	Cyanide		╬~~			┨	. Mi
				-			-	
		<u> </u>		1	<u> </u>		. ن	
olor Be	efore: BROWN	Clari	ty Before:		Texture:	MEDIUN	<u>.</u>	
olor A	fter: COLORI	ESS Clari	Lty After: CLEAR		Artifacts	s:		
omment: E: Th	s: me reported	value is esti	mated due to the	pre	esence of inte	erfere	nce.	<u>-</u>

EPA	SAMPLE	NO.

MH35J0	

						MH35	10
Lab Name	e: ALS Labora	atory Group	Contract:	EPW0903	6		
Lab Code	e: DATAC (Case No.: 407	55 Mod. Ref.	No.:	SDG	No.: M	1H35G5
Matrix:	Soil		Lab Sample	ID: <u>10</u> :	30769017		·
% Solids	s: <u>60.6</u>		Date Recei	ved: <u>11</u>	/03/2010		
Concenti	ration Units	(ug/L, ug or	mg/kg dry weigh	ıt): mg/l	kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	13700			P	
	7440-36-0	Antimony			· · · · · · · · · · · · · · · · · · ·	1	1
	7440-38-2	Arsenic .					
	7440-39-3	Barium				i	
•	7440-41-7	Beryllium					·
	7440-43-9	Cadmium			· 		
	7440-70-2	Calcium	1660			P	
	7440-47-3	Chromium				 	
	7440-48-4	Cobalt		,		+ • • •	."
	7440-50-8	Copper					
	7439-89-6	Iron	37300	<u> </u>		P	,
	7439-92-1	Lead	37300				·
	7439-95-4	Magnesium	8730			P	
	7439-96-5	Manganese	8730				
* =	7439-97-6	Mercury					· .
1							•
***************************************	7440-02-0	Nickel	703.			P	825 ט 7 825 ט 7
	7440-09-7	Potassium	703.			F.	0200
	7782-49-2	Selenium					
	7440-22-4	Silver	2.5				1000 17
	7440-23-5	Sodium	25.2	J	E	P	825 0.
	7440-28-0	Thallium			····		2/
	7440-62-2	Vanadium					- 1
	7440-66-6	Zinc					*
	57-12-5	Cyanide					
		· .					
Color Be	fore: BROWN	Clari	ty Before:		Texture: C	OARSE	
Color Af	ter: YELLOW	Clari	ty After: CLEAR		Artifacts:		
~							
Comments E: The		alue is estin	mated due to the	presenc	ce of inter	feren	ce.
	•	•					
							
			•				

						МН35	J1.
Lab Nam	e: ALS Labor	atory Group	Contract: <u>F</u>	EPW090	36		
Lab Cod	e: DATAC	Case No.: 407	55 Mod. Ref.			EDG No.: M	1H35G5
Matrix:	Soil	1111112	Lab Sample	ID: <u>1</u>	.03076901	.8	
% Solid	s: <u>33.1</u>		Date Recei	ved: 1	1/03/201	.0	
Concent	ration Units	(ug/L, ug or	mg/kg dry weigh	t): mg	/kg		
:	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum					77
	7440-36-0	Antimony	1.0	J	N	MS	3.00 J 72 1.50 J 72 1.50 J 72
	7440-38-2	Arsenic	49.8		E	MS	
	7440-39-3	Barium	75.6			MS]
	7440-41-7	Beryllium	0.26	J	E	MS	1.505 %
	7440-43-9	Cadmium	0.28	J	E	MS	1.505 7
	7440-70-2	Calcium					
	7440-47-3	Chromium	7.1		E	MS	J H
	7440-48-4	Cobalt	3.9			MS]
	7440-50-8	Copper	96.7		Е	MS	丁石
	7439-89-6	Iron					
	7439-92-1	Lead	421.			MS]
	7439-95-4	Magnesium					<u>l</u>
	7439-96-5	Manganese	618.		Е	MS	I T
•	7439-97-6	Mercury]
	7440-02-0	Nickel	3.6		E	-MS-	<u> </u>
	7440-09-7	Potassium					
•	7782-49-2	Selenium	1.5	J	N	MS	7.607 2
	7440-22-4	Silver	2.4		N	MS	7.6 UT 2
	7440-23-5	Sodium					
•	7440-28-0	Thallium	0.31	J		MS	1.5 03 2
	7440-62-2	Vanadium	43.1			MS	74
	7440-66-6	Zinc	98.1		NE	MS]] -
-	57-12-5	Cyanide					1.5 UJ 2 J- 76 2/18/
Color B	efore: ORANG	E Clari	ty Before:		Textur	e: MEDIUM	
			ty After: CLEAR				
Comment: E: Th		value is esti	mated due to the	prese	ence of i	nterferen	ice.
	F			.=			
							
			·				

EPA	SAMPLE	NO.

MH35J1	

	: ALS Labora : DATAC C	55 Mod. Ref. l	Mod. Ref. No.: SDG No.: MH35			H35G5		
trix:			•	Lab Sample ID:				
			Dota Bogoi	red.	11/03/2010		•	
Solids	: 33.1		Date Recei	veu.	11/03/2010			
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): 1	ng/kg			
	CAS No.	Analyte	Concentration	C	Q	М		
	7429-90-5	Aluminum	3240			P		
	7440-36-0	Antimony						
	7440-38-2	Arsenic					Į.	
	7440-39-3	Barium				ļ		
	7440-41-7	Beryllium				1		
	7440-43-9	Cadmium					1510 U	
	7440-70-2	Calcium	1070	J	1	P	15100	
	7440-47-3	Chromium						
	7440-48-4	Cobalt						
	7440-50-8	Copper					1	
	7439-89-6	Iron	300000		D	P	4	
	7439-92-1	Lead				 _	1510 0	
	7439-95-4	Magnesium	1210	J		· P	1.1310 0	
	7439-96-5	Manganese					-	
	7439-97-6	Mercury						
	7440-02-0	Nickel		L			1510 U	
	7440-09-7	Potassium	1020	J		F	1310	
	7782-49-2	Selenium	·	<u> </u>			-	
	7440-22-4	Silver		 -	73	P	1510 1)	
	7440-23-5	Sodium	90.9	J	E	F	10100	
	7440-28-0	Thallium		 			1510 U	
	7440-62-2	Vanadium		 			- ' '	
	7440-66-6	Zinc		 		-1	-	
	57-12-5	Cyanide		ļ			-{	
			<u> </u>	<u> </u>			┪	
				<u> </u>			_	
lor Be	efore: ORANG	E Clari	ity Before:		Texture:	MEDIU	1	
		_ :			n-tifocts			
lor A	fter: YELLOW	Clari	ity After: CLEAR		ATTILACUS	·	·	
_		•						
mment	s: ,		مناه منه مورام بريادين		seance of inte	rfere	nce.	
E: Th	e reported	value is esti	mated due to the	рте	Selice of Tife			

EPA	SAMPLE	NO.
	МН35J2	

					l.		
						МНЗ	5J2
Name	e: ALS Labor	atory Group	Contract:	EPWO	9036		
Code	∋: DATAC	Case No.: 407	55 Mod. Ref.	No.:		SDG No.:	MH35G5
rix:	Soil		Lab Sample	e ID:	103076901	.9	
olida	s: <u>32</u> .7		Date Recei				-
entr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt)::	ng/kg		
	CAS No.	Analyte	Concentration	Гc	Q	М	7
	7429-90-5	Aluminum			- ×		
	7440-36-0	Antimony	1.7	J	27	- +	
	7440-38-2	Arsenic	49.1	-	И	MS	3,10]
	7440-39-3	Barium	41.3		E	MS	7 7
	7440-41-7	Beryllium	0.13	J	 	MS	
	7440-43-9	Cadmium	1.0	J	E	MS	1.5 UJ
	7440-70-2	Calcium	1.0		E	MS	しいらいて
	7440-47-3	Chromium	2.2	J			سسر ا
	7440-48-4	Cobalt	16.6	U	E	MS]] /
	7440-50-8	Copper	32.8			Ms	T 70
	7439-89-6	Iron	32.0		E	MS	I A
	7439-92-1	Lead	419.				
	7439-95-4	Magnesium	419.			MS	
• •	7439-96-5	Manganese	2110				
	7439-97-6	Mercury	2110		DE	MS	了不
ł	7440-02-0	Nickel					T 7
.,	7440-09-7	Potassium	1.7		· E · · ·	MS	7 /
	7782-49-2	Selenium	0.00				
	7440-22-4	Silver	0.23	$-\frac{J}{}$	N		7.60
	7440-23-5	Sodium	0.84	J	N	MS	7.607
-	7440-28-0	Thallium					l
-	7440-62-2		0.25	J	· · · · · · · · · · · · · · · · · · ·	MS	1.501
- 1	7440-66-6	Vanadium	12.0		·	MS	ļ. <u>.</u> .
<u> </u>	57-12-5	Zinc	232.		NE_	MS	7- ,
}	37TZ-3	Cyanide					2/12
<u></u>					<u> </u>		
Bef	ore: ORANGE	Clarity	Before:		Texture	. MEDTIM	
			After: CLEAR				
							
nts:							
	reported	lue is ostima	ted due to the p	- -		_	

EPA SAMPLE NO.

-					
		MI	135	J2	
_					

		•			MH35	J2
Lab Name	: ALS Labora	atory Group	Contract:	EPW09036		
Lab Code	: DATAC (Case No.: 4075	5 Mod. Ref.	No.:	SDG No.: N	MH35G5
Matrix:	Soil		Lab Sample	ID: 10307690)19	
% Solids	: 32.7		Date Recei	ved: <u>11/03/20</u>)10	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	it): mg/kg	•	·
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5	Aluminum	2320		P	
	7440-36-0	Antimony				
	7440-38-2	Arsenic				
	7440-39-3	Barium				
	7440-41-7	Beryllium				
	7440-43-9	Cadmium				-75/
	7440-70-2	Calcium	729.	J	P	1530 U 7
	7440-47-3	Chromium				, 5,50
	7440-48-4	Cobalt				
	7440-50-8	Copper				
	7439-89-6	Iron	462000	D	P	
	7439-92-1	Lead	402000		_	
	7439-95-4	Magnesium	1040	J	P	1530 U. TE
	7439-96-5	Manganese	7040	0		1330 0
	7439-97-6	Mercury				
	7440-02-0	Nickel				
The state of the s	7440-02-0	Potassium	373.	т	P	1530 17
	7782-49-2		3/3.	J	<u></u>	ישכיניין
		Selenium				
	7440-22-4	Silver	30 5			-22 K
* *	7440-23-5	Sodium	30.5	J E	P	15300
	7440-28-0	Thallium				1530 UM 1530 UM 2/18/11
	7440-62-2	Vanadium				2/1011
	7440-66-6	Zinc				
	57-12-5	Cyanide				
		 				
ı		<u> </u>				
Color Be	fore: ORANGE	Clarity	y Before:	Textu	re: MEDIUM	
Color Aft	er: YELLOW	Clarity	y After: CLEAR	Artif	acts:	
Comments						
		alue is estima	ted due to the	presence of	interferen	ce.
	F			<u></u>		
						· · · · · · · · · · · · · · · · · · ·

EPA	SAMPLE	NO.

MH35J3	

rix:	Soil		Lab Sample	ID: <u>10</u>	30769020		
	: 28.6		Date Recei	ved: 1	1/03/2010_		
JOLIGS	. 20.0	· · · · · · · · · · · · · · · · · · ·					
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t):mg/	′kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum					0 - 3 -
	7440-36-0	Antimony	0.51	J	N	MS	350
	7440-38-2	Arsenic	26.7		E	MS	7
	7440-39-3	Barium	159.		<u></u>	MS	1.705
	7440~41-7	Beryllium	1.6	J	E	MS	1.101
	7440-43-9	Cadmium	1.0	J	Е	MS	1.705
	7440-70-2	Calcium					J
	7440-47-3	Chromium	5.1		E	MS	1
	7440-48-4	Cobalt	18.6			MS	5 7
	7440-50-8	Copper	216.		E	MS	3
	7439-89-6	Iron					
	7439-92-1	Lead	210.			MS	
	7439-95-4	Magnesium					T 72
•	7439-96-5	Manganese	897.		E	MS	7
	7439-97-6	Mercury					- 71
	7440-02-0	Nickel	6.0		E	MS	
	7440-09-7	Potassium					8.703
	7782-49-2	Selenium	1.2	J	N	MS	8,10
	7440-22-4	Silver	0.56	J	N	MS	1.705
	7440-23-5	Sodium			<u> </u>		1.705
	7440-28-0	Thallium	0.50	J		MS	1.70-
	7440-62-2	Vanadium	31.3			MS	
	7440-66-6	Zinc	339.		NE	MS	J- ,
	57-12-5	Cyanide					J- 2/1
* .							1 /
]
	fore: BROWN				Texture:		
lor Af	ter: YELLOW	Clari	ty After: CLEAR	·	_ Artifact	s:	
mments	•						

		INONOMIA	IC ANALISIS DAIR	ı Jiili.	EP	A SAME	LE NO.
	•					MH35	J3
Lab Name	e: ALS Labor	atory Group	Contract:	EPWO!	9036		
Lab Code	e: DATAC	Case No.: <u>4075</u>	5 Mod. Ref.	No.:	SDG	No.:	MH35G5
Matrix:	Soil		Lab Sample	iD:	1030769020		<u> </u>
% Solids	s: <u>28.6</u>		Date Recei	.ved:	11/03/2010		
Concent	ration Unite	lug/T ug or	mg/kg dry weigh	.41	(1		
Concentr		T	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>		1
	CAS No.	Analyte	Concentration	С	Ω	М	
	7429-90-5	Aluminum	28200			P	
	7440-36-0	Antimony				_	
	7440-38-2	Arsenic					
	7440-39-3	Barium]
	7440-41-7	Beryllium					
	7440-43-9	Cadmium					
	744070-2	Calcium	1950			P	
	7440-47-3	Chromium		<u> </u>		1	
	7440-48-4	Cobalt				_[.	
	7440-50-8	Copper		,,,			
	7439-89-6	Iron	62200			P	
	7439-92-1	Lead				-	
	7439-95-4	Magnesium	2280			P	
	7439-96-5	Manganese					i .
	7439-97-6	Mercury					
	7440-02-0	Nickel					-74
-, -, -, -, -, -, -, -, -, -, -, -, -, -	7440-09-7	Potassium	974.	J		P	ט 1740
-	7782-49-2	Selenium				T	
	7440-22-4	Silver				 	-
	7440-23-5	Sodium	88.4	J	E.	P	1740 UK
	7440-28-0	Thallium				+	-1
	7440-62-2	Vanadium			·	-	1740 0 20 1740 0 20 20 20 1740 W
	7440-66-6	Zinc					,
	57-12-5	Cyanide					
		03222				-	
			<u>-</u>				
,		<u> </u>				<u> </u>	
Color Ber	fore: BROWN	Clarity	y Before:		Texture: C	OARSE	
Color Aft	ter: YELLOW	Clarity	y After: CLEAR		Artifacts:		_
Comments:	•		•		•		
		olso do cobie	7 + مداك المميك			_	
E. IIIe	reported A	arue is estima	ted due to the	pres	ence of inter	reren	ce.

EPA	SAMPLE	NO.
	MH35J4	

		•					H35	J4	
Lab Name	e: ALS Labor	atory Group	Contract:	EPWO9	9036				
Lab Code	e: DATAC	Case No.: 407	Mod. Ref.	No.:		SDG No	.: <u>N</u>	ин35 G 5	_
Matrix:	Soil		Lab Sample	1D:	10307690	21			-
% Solids	s: <u>78.1</u>		Date Recei	ved:	11/03/20	LO			
Concentr	ration Units	: (110/I 110 or	mg/kg dry weigh	1 + 1 • m	na/ka				
	CAS No.	Analyte	Concentration	с,				1	
	7429-90-5	Aluminum	Concentration		Q		M		
	7440-36-0	Antimony	0.94	J	N		MO	0	17 TO
	7440-38-2	Arsenic	23.7	<u> </u>	E		MS MS	13	ער
•	7440-39-3	Barium	117.				MS	1	12
	7440-41-7	Beryllium	0.48	J	E		MS	1.64	UJA
	7440-43-9	Cadmium	9.6		E		MS	J	H
	7440-70-2	Calcium						7	12.
	7440-47-3	Chromium	8.4		E		MS	3	M
	7440-48-4	Cobalt	8.0				MS	7	
	7440-50-8	Copper	244.	-	E		MS	J	N
	7439-89-6	Iron		***					
	7439-92-1	Lead	1820		D		MS	-	
	7439-95-4	Magnesium							٠.
	7439-96-5	Manganese	1180		DE		MS	I	M
	7439-97-6	Mercury			· · · · · · · · · · · · · · · · · · ·			_	H
	7440-02-0	Nickel	5.8		E		MS	I	, H
	7440-09-7	Potassium						·/	
	7782-49-2	Selenium	0.85	J	N		MS	3.2	UJA
	7440-22-4	Silver	5.4		N		MS	T	7/
;	7440-23-5	Sodium						~	م.
	7440-28-0	Thallium	0.31	J			MS	0.64	2/18/2
	7440-62-2	Vanadium	53.6				MS		
	7440-66-6	Zinc	2610		DNE		MS '	1 -	- M
	57-12-5	Cyanide							2/18/2
									296-
l Color Be	fore: YELLOW	Clarit	y Before:		Textur	e: MED	LUM		
Color Aft	ter: BROWN	Clarit	y After: CLEAR		Artifa	cts:			
7						-		•	
Comments:									
E: The	reported v	alue is estima	ated due to the	pres	ence of i	nterfe	rend	:e	
		·							

EPA SAMPLE NO.

MH35J4	

	Code: <u>DATAC</u> Case No.: 40755 Mod. Ref. No.: SDG No.: MH35G5 Lab Sample ID: 1030769021						
rix:	Soil		rap sambre	TD.	1030769021		
olids	s: <u>78.1</u>		Date Recei	ved:	11/03/2010		
	ation Unite	/ng/T ng or	mg/kg dry weigh	t): mo	r/ka		
centi	CAS No.	Analyte	Concentration	С	Q	M.	
	L		13900	-		P	
	7429-90-5	Aluminum	12200			1 -	
	7440-36-0	Antimony Arsenic				 	
	7440-38-2	Barium				 	1
	7440-39 - 3 7440-41 - 7	Beryllium				1	
	7440-41-7	Cadmium				1	1
	7440-43-9	Calcium	5910			P]
	7440-47-3	Chromium]
	7440-48-4	Cobalt]
	7440-50-8	Copper					
	7439-89-6	Iron	47800			P	
	7439-92-1	Lead					
	7439-95-4	Magnesium	11200			P] .
	7439-96-5	Manganese			,]
	7439-97-6	Mercury				_	
	7440-02-0	Nickel					
	7440-09-7	Potassium	1070		<u></u>	P	J+ " 640 U 2/.
	7782-49-2	Selenium					1
	7440-22-4	Silver					ו בער
	7440-23-5	Sodium	77.9	J	E	P	6700
	7440-28-0	Thallium					2/
	7440-62-2	Vanadium		 			1
	7440-66-6	Zinc				_	_
	57-12-5	Cyanide				-	_
							_
		<u></u>					1
	c protest	01 a m á	ter Boforos		Texture: C	OARSE	
or B	efore: BROWN	Clari	ty Before:				
or A	fter: YELLOW_	Clari	ty After: CLEAR	•	Artifacts	:	
ment	e•						
menc	o: monerted	aluo is osti	mated due to the	pres	ence of inte	rferen	ace.
≝: Th	e reported v	arue is esti	mater due to the	Prico			

EPA	SAMPLE	NO.
	мн35J5	

		•				мн35	J5
Lab Nam	e: ALS Labor	atory Group	Contract:	EPW090	036		<u>,</u>
Lab Cod	e: DATAC	Case No.: 407	55 Mod. Ref.	No.:_	S	DG No.:	MH35G5
Matrix:	Soil	· · · · · · · · · · · · · · · · · · ·	Lab Sample	ID:	103076902	2	
% Solid	s: 82.7		Date Recei	ved: .	11/03/201	0	
Concenti	ration Units	s (ug/L, ug or	mg/kg dry weigh	t): mg	g/kg		·
	CAS No.	Analyte	Concentration	С	Q	М]
•	7429-90-5	Aluminum			·		741
	7440-36-0	Antimony	0.14	J	N	MS	1201
	7440-38-2	Arsenic	13.5		E	MS	T
	7440-39-3	Barium	113.			MS	-
	7440-41-7	Beryllium	0.44	J	E	MS	0.60 01 3
	7440-43-9	Cadmium	0.11	J	E	MS	0.60 05 %
	7440-70-2	Calcium					0,000
	7440-47-3	Chromium	10.		E	MS	1 7
	7440-48-4	Cobalt	6.8			MS	-
	7440-50-8	Copper	40.6		E	MS	T m
	7439-89-6	Iron				140	
	7439-92-1	Lead	241.	<u></u>		MS	
	7439-95-4	Magnesium				140	_
=	7439-96-5	Manganese	796.		DE	MS	I A.
	7439-97-6	Mercury				146	-1
	7440-02-0	Nickel	6.6		E	MS	TH
	7440-09-7	Potassium				Ma	
	7782-49-2	Selenium	0.62	J	Ŋ	MS	ZAUT
	7440-22-4	Silver	1.3		N	MS	5,007
	7440-23-5	Sodium	113			1 110	. 7
-	7440-28-0	Thallium	0.33	J		MS	0 66 NT
	7440-62-2	Vanadium	65.3	-		MS	0,00003
	7440-66-6	Zinc	102.		NE		T 21
·	57-12-5	Cyanide	102.		. 146	MS	3.0 UJ m 0.60 UJ J- 2/18/11
							2/10/1
							
_	_						
olor Be	fore: BROWN	Clarit	y Before:		Texture	: MEDIUM	
olor Af	ter: WHITE	Clarit	y After: CLEAR		Artifac	ts:	
omments	:						
		alue is estim	ated due to the	presei	nce of in	terferend	ce.
							
					·		
		·····					

Z C T	SAMPLE	NO

MH35J5

						MH35	J5
Lab Name	: ALS Labora	tory Group	Contract:	EPWOS	9036		<u>-</u>
Lab Code	: DATAC C	Case No.: 4075	5 Mod. Ref.	No.:		SDG No.:	MH35G5
Matrix:	Soil		Lab Sample	ID:	10307690	22	····
% Solids	: 82.7	·	Date Recei	ved:	11/03/20	10	
							. •
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): n	ng/kg		
	CAS No.	Analyte	Concentration	С	Q.	М	
	7429-90-5	Aluminum	12900	-		P	
	7440-36-0	Antimony					
	7440-38-2	Arsenic					
	7440-39-3	Barium					* .
•	7440-41-7	Beryllium					
	7440-43-9	Cadmium			Ì		-
	7440-70-2	Calcium	2080			P	
	7440-47-3	Chromium			<u> </u>		1
	7440-48-4	Cobalt					· · · · · · · · · · · · · · · · · · ·
	7440-50-8	Copper					
-	7439-89-6	Iron	36900		 	Р	†
	7439-92-1	Lead					1
	7439-95-4	Magnesium	10700			P	7
	7439-96-5	Manganese					
	7439-97-6	Mercury		-	1		
	7440-02-0	Nickel					
	7440-09-7	Potassium	1030			Р	J+ 71 605 U 7 2/181
	7782-49-2	Selenium	1000		<u> </u>		- 7'
	7440-22-4	Silver					
•	7440-23-5	Sodium	81.2	J	E	P	105117
•		Thallium	01.2	· ·	- E		16000
	7440-28-0	Vanadium					2/181
	7440-62-2	Zinc					- '
	57-12-5	<u> </u>		1	 	-	\dashv
	37-12-3	Cyanide			-		- ·
							+
					<u></u>	<u>.</u>	
Color Be	fore: BROWN	.Clarit	v Before:		Textu	re: COARSI	2
0020- 20							
Color Af	ter: YELLOW	Clarit	y After: CLEAR		Artif	acts:	
Comments	:						
		alue is estima	ated due to the	pres	sence of	interfere	nce.
				<u> </u>			
			,				
							•

REGION VIII DATA VALIDATION REPORT INORGANIC

Case/IDD No:	Site 1	lame	Operable Unit
40755 / 1008-16	Upper Animas Mini	ing District	
RPM/OSC Name	,		
Sabrina Forrest			
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
ALS Laboratory Group	EPW05026	МН35Н7	

Review Assigned Date:	December 15, 2010	Data Validator:	Fred Luck
Review Completion Date:_	February 18, 2011	Report Reviewer:_	Lesley Boyd

Sample ID	Matrix	Análysis
мн35н7	Sediment	CLP –Metals
MH35J6	Soil - Surface	
MH35J7		
мн35J8	-	
МН35J9		
мн35К0		· .
MH35K1		
MH35K2	•	
MH35K3		
MH35K4		
MH35K5		
мн35К6		
MH35K7		

UOS

URS Operating Services, Inc.

Data Validation Report

Sample ID	Matrix	Analysis.
MH35K8	Sediment	CLP –Metals
MH35K9		·
MH35L0		
MH35L1		
MH35L2		
MH35L3		

UOS

URS Operating Services, Inc.

Data Validation Report

DATA QUALITY STATEMENT

	DIXIA QUALITI STATEMENT	
()	Data are ACCEPTABLE according to EPA Functional guideling by the reviewer.	es with no qualifiers (flags) added
() (X)	Data are UNACCEPTABLE according to EPA Functional Guid Data are acceptable with QUALIFICATIONS noted in review.	lelines.
Telepho	one/Communication Logs Enclosed? Yes	No <u>X</u>
CLP Prattention	oject Officer Attention Required? YesNoX	_ If yes, list the items that require

INORGANIC DATA VALIDATION REPORT

REVIEW NARRATIVE SUMMARY

This data package was reviewed according to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," January 2010.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-15% of the results reported in <u>each</u> of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

The data package, Case No. 40755, SDG No. MH35H7, consisted of nineteen sediment / soil – Surface samples for metals by ICP-AES and ICP-MS (ISM01.2). The following table lists the data qualifiers added to the sample analyses. Please see Data Qualifier Definitions, attached to the end of this report.

Sample ID	Elements	Qualifiers	Reason for Qualification	Review Section
MH35H7, MH35J7, MH35K1, MH35K2, MH35K4, MH35K5, MH35K7, MH35K8, MH35K9,	Antimony	U	Blank Contamination	3
MH35L1, MH35L2				
MH35H7, MH35J6, MH35J7, MH35J8, MH35J9, MH35K0	Beryllium	The second secon		
MH35K1, MH35K2, MH35K3, MH35K4, MH35K5, MH35K6,				
MH35K9, MH35L3	•		;	
MH35H7, MH35J7, MH35K2, MH35K5, MH35K9, MH35L3	- Cadmium			
MH35J7, MH35J8, MH35J9, MH35K0, MH35K3, MH35K5, MH35K6, MH35K9, MH35L0,	Calcium			
MH35L3				
MH35K0, MH35K3, MH35K5	Chromium	<u> </u> -		
MH35J8, MH35J9, MH35K0, MH35K3, MH35K5, MH35L3	Cobalt .	<u> </u>		
MH35J7, MH35J8, MH35J9, MH35K0, MH35K3, MH35K5, MH35K9, MH35L3	Magnesium			
MH35J8, MH35J9, MH35K0, MH35K3, MH35K5, MH35L3	Nickel			
MH35J7, MH35J8, MH35K8, MH35K9, MH35L0, MH35L3	Potassium			
MH35H7, MH35J6, MH35J7, MH35J8, MH35J9, MH35K0, MH35K1, MH35K2, MH35K4, MH35K5, MH35K6, MH35K7,	Selenium			
MH35K8, MH35K9,MH35L0, MH35L1, MH35L2, MH35L3				
мн35н7	Silver			

Data Validation Report

Sample ID	Elements	Qualifiers	Reason for Qualification	Review Section
MH35H7, MH35J6, MH35J7, MH35J8, MH35J9, MH35K0, MH35K1, MH35K2, MH35K3, MH35K4, MH35K5, MH35K6, MH35K7, MH35K8, MH35K9, MH35L0, MH35L1, MH35L2, MH35L3	Sodium	U	Blank Contamination	3
MH35K7, MH35K8, MH35L0, MH35L1, MH35L2	Beryllium	J+	Potentially false positive detection in ICS check sample	4
MH35H7, MH35J6, MH35J9, MH35K0, MH35K1, MH35K2, MH35K3, MH35K4, MH35K5, MH35K6, MH35K7, MH35L1, MH35L2	Potassium			
MH35J7, MH35J8, MH35K2, MH35K4, MH35K5, MH35K6, MH35K8, MH35K9, MH35L2, MH35L3	Thallium	1-	Potentially false negative detection in ICS check sample	
All Samples	Copper, Lead	J/UJ	Original & Duplicate both >5x the CRQL and RPD > 20%	6
	Antimony, Silver	J/UJ	MS <30%R, Post Digestion Spike %R≥75%	7
	Barium, Copp e r	T+	MS >125%R, Post Digestion Spike not performed	manane e e e e e e e e e e e e e e e e e
	Arsenic		MS > 125%R, Post Digestion Spike %R > 125%	
	Arsenic, Beryllium, Cadmium, Copper, Nickel, Sodium, Zinc	1/UJ	Serial Dilution %D > 10%	

Data Validation Report

1. PRESERVATION AND HOLDING TIMES

		holding times and preservation criteria were met.
	Yes	No_X_
	Comments:	The samples were analyzed within 180 days for the ICP metals. According to the
	•	Sample Log-In Sheet and case narrative, the two sample coolers were each
	•	received at a temperature of 7°C, which is outside the recommended temperature range of 4 ± 2 °C. The Sample Log-In Sheet further indicates that neither cooler
	•	contained a Cooler Temperature Indicator Bottle, as indicated on the form to be
		required. There is also no indication that SMO was contacted regarding this
	•	issue, neither is any documentation of the resolution or indication of how the cooler temperature was derived provided. The TR/COC also did not designate a
		sample for laboratory QC, but the documentation of the resolution of this issue is
		provided in the SDG.
		When the sample preservation criteria are not met, but the sample analysis and
		extraction are within the technical holding times then professional judgment is used whether to qualify the data. No action was taken since the preservation
	• •	exceedence was minimal and the extraction and holding times were well within
		the established parameters.
-		No other shipping or receiving problems were noted. Chain-of-custody,
		summary forms, and raw data were evaluated.
		·
• .	INSTRUME	NT CALIBRATIONS: INITIAL AND CONTINUING CALIBRATION
e e	INSTRUME VERIFICAT	NT CALIBRATIONS: INITIAL AND CONTINUING CALIBRATION TON (ICV AND CCV)
POVERNO	······································	d continuing calibration verification standards (ICV and CCV, respectively) met
	The initial and	d continuing calibration verification standards (ICV and CCV, respectively) met
TUNESCO	The initial and SOW requires Yes_X	ION (ICV AND CCV) d continuing calibration verification standards (ICV and CCV, respectively) met ments. No
TO THE STATE OF TH	The initial and SOW requires	ION (ICV AND CCV) d continuing calibration verification standards (ICV and CCV, respectively) met ments.
TVPSOP	The initial and SOW requires Yes X Comments:	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for
The state of the s	The initial and SOW requires Yes_X Comments: The calibration cyanide, and S	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 60-120% for mercury.
TO THE POST OF THE	The initial and SOW requires Yes X Comments:	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and S	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 60-120% for mercury.
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and South	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 60-120% for mercury. No
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and Sow Yes_X Comments:	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 60-120% for mercury. No
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and Sow Yes_X Comments:	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 10-120% for mercury. No No None.
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and Sow Yes_X Comments: The continuing Yes_X	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 10-120% for mercury. No No None. calibration standards were run at 10% frequency or every two hours. No
	The initial and SOW requires Yes_X Comments: The calibration cyanide, and Sow Yes_X Comments:	d continuing calibration verification standards (ICV and CCV, respectively) met ments. No None. n verification results were within 90-110% recovery for metals, 85-115% for 10-120% for mercury. No No None.

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3. BLANKS

The initial and requirements.	continuing calibration blanks (ICB and CCB, respectively) met SOW
Yes_X_	No
Comments:	None.
The continuing	g calibration blanks were run at 10% frequency.
Yes_X_	No
Comments:	Continuing calibration blanks were run every 10 samples.
A laboratory/p delivery group	reparation blank was run at the frequency of one per twenty samples, or per sample (whichever is more frequent), and for each matrix analyzed.
Yes_X_	No
Comments:	None.
All analyzed b	lanks were free of contamination.
Yes	No <u>X</u>

Comments: The following table lists the blanks with contamination that resulted in sample qualification, elements present, affected samples, and data qualifiers:

Data Validation Report

Blank Contaminants

	(45.1) Figure (4.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.				Associated		na manananan
Blank	Contam	CRQL	NAME OF THE PERSON OF THE PERS	Concentration	Samples	Concentration	
ÎD.	inant	1000 1000 1000	MDL	Found in	Samples	Eound in	Qualifier/==
		(mg/Kg)	(mg/Kg)	Blank (mg/Kg)		Sample	Adjustment
PB	Antimony		0.0097	0.026	MH35H7	(mg/Kg)	
		1	0.0057	0.020	MH35J7	0.19	1.5 U
-		<u> </u>	1		MH35K1	1.2	1.3 U
		-			MH35K2	0.26	1.1 U
1					MH35K4	0.25	1.1 U
		-			MH35K5	0.54	1.1 U
1		Ì			MH35K7	0.99	1.1 U
1		}	1 1		MH35K8	0.41	1.2 U
l			1		MH35K9	0.59	1.3 U
	,	1	ļ		MH35L1	5.2	6.8 U
<u>L</u>			i		MH35L2	0.71	1.7 U
PB	Beryllium	0.5	0.0032	0.013	MH35H7	0.34	1.2 U
			.]	0.015	MH35J6	0.68	0.76 U
		į			MH35J7	0.19	0.60 U
-	-]		MH35J8	0.22	0.65 U
1			1		MH35J9		0.78 U
1	ĺ				MH35K0	0.21 0.32	0.56 U
			ľ		MH35K1	0.32	0.55 U
					MH35K2	0.30	0.57 U 0.55 U
					MH35K3	0.20	1
		İ			MH35K4	0.11	0.54 U
	ĺ	ı	·		MH35K5	0.13	0.54 U 0.55 U
			1		MH35K6	0.19	0.55 U
					MH35K9	0.84	3.4 U
					MH35L3	0.11	3.0 U
PB.	Cadmium	0.5	0.0027	0.005	MH35H7	0.25	0.76 U
					MH35J7	0.58	0.65 U
,			1	·	MH35K2	0.55	0.55 U
		1			MH35K5	0.53	0.55 U
					MH35K9	1.7	3.4 U
					MH35L3	2.8	3.0 U
PB	Calcium	500	1.7	9,992	MH35J7	369	648 U
					MH35J8	405	775 U
	1				MH35J9	57.7	563 U
					MH35K0	259	551 U
					MH35K3	34.8	535 U
			1		MH35K5	48.6	554 U
]		į	MH35K6	246	547 U
			.]	ĺ	MH35K9	2040	3380 U
	1				MH35L0	223	718 U
TNC	01 :				MH35L3	279	2980 U
PB	Chromium	1	0.026	1.000	MH35K0	0.97	1.1 U
		[MH35K3	0.86	1.1 U
DD	61.1	<u> </u>			MH35K5	0.46	1.1 U
	Cobalt	1 1	0.0053	0.006	MH35J8	0.41	0.78 U
PB	Coomi	,			I .		
PB	Coom			j	MH35J9	0.19 l	0.5611
PB	·				MH35K0	0.19 0.23	0.56 U 0.55 U
ЬВ	Cooan					0.23	0.55 U
PB	·				MH35K0		

Data Validation Report

					Associated		
Blank	Contam-	CRQL	MDL	Concentration	Samples	Concentration Found in	
\mathbf{D}	ioant	(mg/Kg)		Found in	Campics	Sample	Qualifier/
			(**6'1)	Blank (mg/Kg)		(mg/Kg)	Adjustment
- PB	Magnesium	500	1.2	2.971	MH35J7	477	648 U
	1				MH35J8	375	775 U
	[į			MH35J9	45.9	563 U
	.		1		MH35K0	72.4	551 U
ı			·		MH35K3	38.2	535 U
					MH35K5	118	554 U
				٠.	MH35K9	2120	3380 U
DD	1				MH35L3	486	2980 U
PB	Nickel	0.5	0.013	0.500	MH35J8	0.36	0.78 U
	İ	1			MH35J9	0.19	0.56 U
	•]		, , , , , , , , , , , , , , , , , , ,	MH35K0	0.17	0.55 U
	İ	ĺ			MH35K3	0.27	0.54 U
					MH35K5	0.14	0.55 U
PB	Potassium	500	5.8	24 400	MH35L3	1.6	3.0 U
	rotassitiin	300	3.8	21.198	MH35J7	319	648 U
	1			**	MH35J8	418	775 U
				,	MH35K8	645	664 U
					MH35K9	1130	3380 U
			i		MH35L0	307	718 U
PB	Selenium	2.5	0.036	2.500	MH35L3	773	2980 U
			0.050	2.300	MH35H7 MH35J6	. 1.1	3.8 U
	,				MH35J7	2.7	3.0 U
					MH35J8	1.2	3.2 U
					MH3519	1.4 1.7	3.9 U
					MH35K0	1.8	2.8 U
· · · · · · · · · · · · · · · · · · ·					.MH35K1	1.8	2.8 U
		,			MH35K2	0.60	2.8 U
		Ï		İ	MH35K4	0.83	2.7 U
					MH35K5	0.90	2.8 Ü
			i		MH35K6	1.3	2.7 U
		1	1		MH35K7	0.52	3.0 U
					MH35K8	0.35	3.3 U
				Ī	MH35K9	2.0	. 17 U
ŀ	1				MH35L0	0.66	3.6 U
		j			MH35L1	0.59	4.3 U
		ŀ	ł	·	MH35L2	0.59	3.0 U
PB	Silver	0.5	0.0002	0.004	MH35L3	4.2	15 U
	BHVCI	0.5	0.0023	0.004	MH35H7	0.41	0.76 U
PB	Sodium	500	0.73	12.520	1.550		
	Dodimin	300	0.73	12.529	MH35H7	80.1	761 U
Ì	·	ŀ			MH35J6	77.4	604 U
		İ		1	MH35J7	38.8	648 U
`	.]	[MH35J8	43.9	775 U
1					MH35J9	22.3	563 U
.	1			· •	MH35K0	59.0	551 U
	į			B	MH35K1	37.7	569 U
	į		- 1	L	MH35K2	105	552 U
1	Í				MH35K3 MH35K4	53.9	535 U
			·		MH35K5	64.3	541 U
					MH35K6	53.1	554 U
					MITTO DE	70.9	547 U

Blank ID	Contam- inant	CRQL (mg/Kg)	MDL (mg/Kg)	Concentration Found in Blank (mg/Kg)	Associated Samples	Concentration Found in Sample (mg/Kg)	Qualifier/ Adjustment
PB	Sodium	500	0.73 .	12.529	MH35K7	59.2	597 U
			-	•	MH35K8	22.1	664 U
· [:			MH35K9	139	3380 U
				:	MH35L0	23.0	718 U
					MH35L1	44.3	855 U
					MH35L2	16.7	600 Ŭ
					MH35L3	48.1	2980 U

INDUCTIVELY COUPLED PLASMA - INTERFERENCE CHECK SAMPLE (ICP-ICS) The ICP interference check sample (ICS) was run at the beginning and end of each sample analysis run and every 20 analytical samples, but not prior to the ICV.

Yes X No_ Comments: None. Percent recovery of the analytes in the ICS solutions were within the range of 80-120% or the result was within ± the CRQL. Yes X No Comments: None. Sample results for aluminum, calcium, iron, and magnesium were less than the ICSA values or no interference was noted. Yes X No_ NA Comments: None. Sample results contain potential false positives and false negatives.

Yes X No

The following table lists the elements with potential false positives or false Comments: negatives that resulted in sample qualification, affected samples, and data qualifiers:

ICP Interferences

Element	Concentration Found in (CSA-Sample (ug/L)	Affected Samples	Concentration Eound in Sample (mg/Kg)	Qualifier/ Adjustment
Beryllium	0.36	MH35K7	>MDL	J+
		MH35K8		•
		MH35L0		
·		MH35L1 MH35L2		
Potassium	494	MH35H7	1	
1 Ottobium	1777	MH35J6		
		MH35J9		
		MH35K0]
		MH35K1		
		MH35K2		
		MH35K3		
		MH35K4		:
		MH35K5		
		MH35K6	·	
		MH35K7		
		MH35L1		
		MH35L2		
Thallium	-0.05	MH35J7	0.23	
	.	MH35J8	0.10	
		MH35K2	0.36	•
		MH35K4	0.38	
		MH35K5	0.43	
		MH35K6	0.37	
		MH35K8	0.41	
		MH35K9	0.31	The management of the State St
	•	MH35L2 MH35L3	0.44	
		ן כיונכנוזאו	0.19	

5. LABORATORY CONTROL SAMPLE

mi 11	•
The laboratory control sample (I CS) was prepared and analyzed with assess to the	
The laboratory control sample (LCS) was prepared and analyzed with every twenty of	or rewer
gammles of a similar and the	
Samples of a similar matrix, or one per sample delivery group (whichever is more for	· ****
samples of a similar matrix, or one per sample delivery group (whichever is more fre	zquent).

Yes_X_	No
Comments:	None.
All results we	re within control limits OF 70-130%.
Yes_X_	No
Comments:	None.

Comments:

6.	FORM 6 &	z 12 - DUPL	ICATE SAM	LE ANA	ALYSIS	1		•	
			is was perform ery group (whic				er samples	of a simila	r matrix,
	Yes X	No	NA						•

The RPDs were calculated correctly.

None.

Yes_X_ No NA

Comments: None.

For sample concentrations greater than five times the CRQL, RPDs were within ±20% (limits of ±35% apply for soil/sediments/tailings samples).

Yes_ No_X_ NA

Comments: The following table lists the duplicate results outside control limits, samples affected, and data qualifiers:

į	Element	RPD	(OCLETITAL)	Samples Affected	Oualifiers
-	Соррег	43%	20,0	All samples	1/01
	Lead				:
ŀ					

For sample concentrations less than five times the CRQL, duplicate analysis results were within the control window of CRQL (absolute difference < CRQL for soils).

Yes X No_ NA Comments: None.

7. SPIKE SAMPLE ANALYSIS

Comments:

A matrix spike sample was analyzed with every twenty or fewer samples of a similar matrix, or one per sample delivery group (whichever is more frequent).

Yes_X_ None.

The percent recoveries (%Rs) were calculated correct
--

NA

Yes X

No___

_

Comments:

None.

Spike recoveries were within the range of 75-125% (an exception is granted where the sample concentration is four times the spike concentration).

Yes_X_

No X

Comments:

The following table lists the spike recoveries outside control limits, post

digestion spike recoveries, samples affected, and data qualifiers:

Element	Matrix Spike	Post-Digestion	Samples Affected	Qualifièrs
Antimony	17%	85%	All samples	J/UJ
Arsenic	130%	944%		J+
Barium	128%	NA .		
Copper	134%	NA		
Silver Silver	11%	88%		I/UJ

NA - No Post digest spike analyzed

A post-digest spike was performed for those elements that did not meet the specified criteria (i.e., Pre-digestion/pre-distillation spike recovery falls outside of control limits and sample result is less than four times the spike amount added, exception: Ag, Hg).

Yes

No X

NA

Comments:

For Arsenic and Copper the spike recoveries were outside of the Control Limits,

but no Post-Digest Spike was performed.

8. ICP SERIAL DILUTION

A serial dilution was performed for ICP analysis with every twenty or fewer samples of a similar matrix, or one per sample delivery group, whichever is more frequent.

Yes_X

No

Comments:

None.

The serial dilution was without interference	problems as d	lefined by the SOW.
--	---------------	---------------------

Yes__ No_X

Comments: The following serial dilution %Ds were greater than 10% and the original sample result was at least 50* the MDL:

Element	% Difference	Samples Affecte	d Qualifiers
Arsenic Beryllium Cadmium Copper Nickel Sodium Zinc	21% 19% 22% 14% 15% 53% 29%	All samples	J

9. REGIONAL QUALITY ASSURANCE (QA) AND QUALITY CONTROL (QC)

Regional QA/QC was conducted as initiated by the EPA Region 8.

Yes__ No_ NA X

Comments: The SDG shows no indication of EPA Region 8 initiating any additional QA / QC.

10. FORM 10 - INTERELEMENT CORRECTION FACTORS FOR ICP

Interelement corrections for ICP were reported.

Yes_X No_

Comments: None.

11. FORM 12 - PREPARATION LOG

Information on the preparation of samples for analysis was reported on Form 12.

Yes_X_ No___

Comments: None.

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12. FORM 13 - ANALYSIS RUN LOG

A Form 13 with the required information was filled out for each analysis run in the data package.

Yes X No___

Comments: None.

13. Additional Comments or Problems/Resolutions Not Addressed Above

Page 1 of the Evidence Audit Checklist (EAC) indicates three airbills are associated with this SDG, however documentation is only provided for Airbill Number 3430, which documents the shipment of four packages. The laboratory only documented receipt of two coolers, so it is unclear as to what the other two packages were that were included on the airbill.

INORGANIC DATA QUALITY ASSURANCE REVIEW

Region VIII

DATA QUALIFIER DEFINITIONS

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality. Use of additional qualifiers should be carefully considered. Definitions for all qualifiers used should be provided with each report.

GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R Reported value is "rejected." The data are unusable. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- The associated numerical value is an estimated quantity and is the approximate concentration of the analyte in the sample.
- J+ The associated numerical value is an estimated quantity but the result may be biased high.
- J- The associated numerical value is an estimated quantity but the result may be biased low.
- U J The reported quantitation limit is estimated because Quality Control criteria were not met.
 Element or compound may or may not be present in the sample.
- N J Estimated value of a tentatively identified compound. (Identified with a CAS number.) ORGANICS analysis only.
- The material was analyzed for, but was not detected above the level of the associated value.
 The associated value is either the sample quantitation limit or the sample detection limit.

ACRONYMS

AA	Atomic Absorption
Ag	Silver
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
CRA	CRQL standard required for AA
CRQL	Contract Required Quantitation Limit
CRI	CRQL standard required for ICP
CV	Cold Vapor
EPA	U.S. Environmental Protection Agency
GFAA	Graphite Furnace Atomic Absorption
Hg	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma

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URS Operating Services, Inc.

Data Validation Report

ICS ·	Interference Check Sample
ICSA	Interference Check Sample (Solution A)
ICSAB	Interference Check Sample (Solution AB)
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
L _R A	Linear Range Verification Analysis
MDL	Method Detection Limit
PDS	Post Digestion Spike
QC	Quality Control
RPD	Relative Percent Difference
RPM	Regional Project Manager
RSD	Percent Relative Standard Deviation
SA	Spike Added
SAS	Special Analytical Services
SDG	Sample Delivery Group
SOW	Statement of Work
SR	Sample Result
SSR	Spiked Sample Result

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EPA SAMPLE NO.

1211	OTHER TOP	110.
		
	MH35H7	

Lab Code	: DATAC (Case No.: 407	Mod. Ref.	No.: _	SDG	No.: M	н35н7	
Matrix:	Soil		Lab Sample	ID:	1030770001			
% Solids	: 65.7		Date Recei	ved: j	11/03/2010			
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): mo	g/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429905	Aluminum	5550			P		
	7440-36-0	Antimony					•	
	7440-38-2	Arsenic						
	7440-39-3	Barium					Í	
	7440-41-7	Beryllium						
	7440-43-9	Cadmium				 -		
	7440-70-2	Calcium	1500			P		
	7440-47-3	Chromium	<u> </u>					
	7440-48-4	Cobalt						
	7440-50-8	Copper	20000	 		P	'-	- ,
	7439-89-6	Iron	30000	-		E		
	7439-92-1	Lead	2560		•	P	1	
	7439-95-4	Magnesium	2360	-	·		1	
	7439-96-5	Manganese						
	7439-97-6 7440-02-0	Mercury Nickel				1		1,
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	7440-02-0	Potassium	934.			P	7+	74
	7782-49-2	Selenium	3371					,
	7440-22-4	Silver						-
	7440-23-5	Sodium	80.1	J	E	P	761	UI
	7440-28-0	Thallium					, , ,	UI 7 2/18/11
	7440-62-2	Vanadium					1	2/18/11
	7440-66-6	Zinc	<u> </u>				1	
	57-12-5	Cyanide					1	
	3. 23 3							
							1	
	L				_•		•	
Color Be	fore: ORANGI	E Clari	ty Before:		Texture:	MEDIUM		
Color Ai	ter: YELLOW	Clari	ty After: CLEAR		Artifacts	:		
~			X					
Comments					and of into	rforon		
E: Th	e reported v	value is esti	mated due to the	pres	ence of inte	rreren	.ce.	

EPA SAMPLE NO.

MH35H7

Name	e: ALS Labor	atory Group	Contract:	EPW09	036		
Code	: DATAC	Case No.: 4075	5 Mod. Ref.	No.:	SDG 1	No.: <u>1</u>	4H35H7
ix:	Soil		Lab Sample	ID:	1030770001		
lids	:: 65.7		Date Recei	ved:	11/03/2010	•	
				_			
entr	ration Units	(ug/L, ug or	mg/kg dry weigh	t): mo	g/kg		
	CAS No.	Analyte	Concentration	С	Q	М]
	7429-90-5	Aluminum					1
	7440-36-0	Antimony	0.19	J	N	MS	1.50 ++ 5+ 0.760 0.760
	7440~38-2	Arsenic	11.7		NE .	MS	1 +
	7440-39-3	Barium	190.		N	MS	1+
	7440-41-7	Beryllium	0.68	J	E	MS	0.760
	7440-43-9	Cadmium	0,25	J	E	MS	0.760
	7440-70-2	Calcium					
	7440-47-3	Chromium	4.8			MS	1
	7440-48-4	Cobalt	4.3		· · · · · · · · · · · · · · · · · · ·	MS	1
	7440-50-8	Copper	34.5		*NE	MS	J+ "
	7439-89-6	Iron					
	7439-92-1	Lead	72.5		*.	MS	1 7
	7439-95-4	Magnesium					
	7439-96-5	Manganese	568.			MS -	
	7439-97-6	Mercury					
	7440-02-0	Nickel	3.9			-MS	J 12
	7440-09-7	Potassium					
	7782-49-2	Selenium	1.1	J		MS	3.80
	7440-22-4	Silver	0.41	Ĵ	Ŋ	MS	2.760
	7440-23-5	Sodium					0.700
	7440-28-0	Thallium	0.52	J	****	MS	_
	7440-62-2	Vanadium	45.2		· · · · · · · · · · · · · · · · · · ·	MS	mit in the
	7440-66-6	Zinc	99.0		*E	MS	7 7
	57-12-5	Cyanide		·			F 2/1
1							2/1
							I
		·					
: Be:	fore: ORANGE	Clarit	y Before:	···	_ Texture: MI	EDIUM	
Aft	ter: GRAY	Clarit	y After: CLOUDY	•	_ Artifacts:		
nts	•						
		alue is estima	ated due to the	prese	nce of inter	feren	ce.
			-				

FPA	SAMPLE	NO.

 	_			
Ŋ	1H	35	J6	

Lab Code	: DATAC C	lase No.: 4075	5 Mod. Ref.	No.:	SDG	No.: L	н35н7	_
Matrix:	Soil		Lab Sample	ID:	1030770004			
% Solids	: 82.8		Date Recei	ved:	11/03/2010			
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt):π	ng/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	8780			P		
	7440-36-0	Antimony				1		
	7440~38-2	Arsenic						
	7440-39-3	Barium						
	7440-41-7	Beryllium						
	7440-43-9	Cadmium						
	7440-70-2	Calcium	1780			P		
	7440-47-3	Chromium					,	
	7440-48-4	Cobalt						
	7440~50-8	Copper						
*	7439-89-6	Iron	102000		D	P		
	7439-92-1	Lead						
	7439-95-4	Magnesium	5600			P		
- 10 10 10 10 10 10 10 10 10 10 10 10 10	7439-96-5	Manganese						
	7439-97-6	Mercury						
	7440-02-0	Nickel						
	7440-09-7	Potassium	790.			P	J+	7X UJ 74 2/18/11
	7782-49-2	Selenium					7	
	7440-22-4	Silver						7
ĺ	7440-23-5	Sodium	77.4	J	E	P	604	UJA
	7440-28-0	Thallium						alelu
	7440-62-2	Vanadium					*	2/10/11
	7440-66-6	Zinc			•			
	57-12-5	Cyanide						
			t				-	
Color Bei	ore: BROWN	Clarit	y Before:		Texture: M	EDIUM	-	
Color Aft	er: YELLOW	Clarit	y After: CLEAR		Artifacts:	:		
Comments:					•			
		elna is astima	ated due to the	nres	ence of inter	feran	70	
<u> </u>	Toporcea v	TTO TO COUNTY	zeca auc co che	دعدم	or or tricer			_
							·	_

EPA SAMPLE NO.

						MH35	J6	
Lab Name	: ALS Labor	atory Group	Contract:	EPW09	036			_
Lab Code	e: DATAC	Case No.: 407	Mod. Ref.	No.:	SDO	3 No.: <u>M</u>	ін35ц7	
Matrix:	Soil		Lab Sample	ID:	1030770004			_
% Solids	82.8		Date Recei	ved:	11/03/2010			_
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mo	g/kg			
	CAS No.	Analyte	Concentration	С	Q ·	М		
	7429-90-5	Aluminum						
	7440-36-0	Antimony	1.8		N	MS	J	K K UJ K
	7440-38-2	Arsenic	9.1		NE	MS	++	71
	7440-39-3	Barium	105.	1	N	MS	7+	H
	7440-41-7	Beryllium	0.19	J	E	MS	0.60	UJ
	7440-43-9	Cadmium	0.63		E	MS	7	75
	7440-70-2	Calcium					7	
	7440-47-3	Chromium	4.9			MS		
	7440-48-4	Cobalt	1.3			MS	•	ja lamagja ama
·	7440-50-8	Copper	195.		*NE	MS	T+	H
* .	7439-89-6	Iron					7	
:	7439-92-1	Lead	6440		D*	MS	4-	Z
	7439-95-4	Magnesium					7	
	7439-96-5	Manganese	452.			MS		
	7439-97-6	Mercury						
	7440-02-0	Nickel	2.3		<u>R</u>	мз		- Ta
	7440-09-7	Potassium			~	1.0	4	•
	7782-49-2	Selenium	2,7	J		MS	3.00	Z
	7440-22-4	Silver	103.	- +	DN	MS	1	TL.
-	7440-23-5	Sodium	100.			140	4	1
	7440-28-0	Thallium	0.50	J		MS		
	7440-62-2	Vanadium	26.0			MS	Υ	2/18/10
	7440-66-6	Zinc	167.		*E	MS	7	24
	57-12-5	Cyanide	107.	-		100		2/18/11
	0. 12 0	Cydnide	, ' -					Misher
ι				1_				•
Color Bef	fore: BROWN	Clarit	y Before:		Tevture	MITTIM		
Color Aft	er: BROWN	Clarit	y After: CLOUDY	•	Artifacts	S:		
					_			
Comments:								
E: The	reported v	alue is estima	ated due to the	prese	nce of inte	erferenc	æ.	
							····	
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EPA	SAMPLE	NO
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мн35J7

					<u> </u>	FILL	
Lab Name	e: ALS Labor	atory Group	Contract:	EPW0903	6		
Lab Code	DATAC	Case No.: 4075	5 Mod. Ref.	No.:	SDG	No.:	MH35H7
Matrix:	Soil	····	Lab Sample	ID: 10	30770005		
% Solids	s: <u>77.2</u>		Date Recei	ved: 11	/03/2010		
Concentr	ation Units	s (ug/L, ug or	mg/kg dry weigh	t): mg/	kg		4
	CAS No.	Analyte	Concentration	С	Q	м	1
	7429-90-5	Aluminum	1470			P	
	7440-36-0	Antimony					
	7440-38-2	Arsenic					1
	7440-39-3	Barium				1	
	7440-41-7	Beryllium	-				
	7440-43-9	Cadmium				1	ــــــــــــــــــــــــــــــــــــــ
	7440-70-2	Calcium	369.	J		P	648 U KA
	7440-47-3	Chromium					Shota
	7440-48-4	Cobalt				<u> </u>	1
•	7440-50-8	Copper					1
	7439-89-6	Iron	150000		D	P	1
	7439-92-1	Lead					1 -
	7439-95-4	Magnesium	477.	J	··············	P	648U 7
	7439-96-5	Manganese			·· ·· · · · · · · · · · · · · · · · ·	i i	(=
	7439-97-6	Mercury					
	7440-02-0	Nickel					
	7440-09-7	Potassium	319.	J		P	6480 74 648 UJ 7 2/18/11
	7782-49-2	Selenium					
•	7440-22-4	Silver		- I		1	
	7440-23-5	Sodium	38.8	J	E	P	648 UJ "
	7440-28-0	Thallium		<u> </u>	-	1	101.
	7440-62-2	Vanadium	*				2/18/11
•	7440-66-6	Zinc					
	57-12-5	Cyanide			, <u>, , , , , , , , , , , , , , , , , , </u>		i •
							
		·					
•		'	······································				, ,
Color Be:	fore: ORANGE	Clarit	y Before:		Texture: M	EDIUM	· .
7-1 <i>7-</i> -	L VETTON		7.51				
COLOR ALI	ter: YELLOW	Clarity	y After: <u>CLEAR</u>		Artifacts:		
Comments:	•				•		•
		nluo in octima				£	
<u> </u>	Teborced A	arde 12 escille	ated due to the	bresem	e or inter	reren	ce.
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USEPA - CLP 1B-IN

INORGANIC ANALYSIS DATA SHEET

EPA	SAMPLE	NO.
-	MH35J7	

					<u> </u>		
b Name	: ALS Labora	tory Group	Contract: 1	EPW09	036		
b Code	: DATAC C	ase No.: 4075	Mod. Ref.	No.:	SDG N	o.: M	н35н7
trix:	Soil		Lab Sample	ID:	1030770005		
Solids	: 77.2		Date Recei	ved:	11/03/2010		
				-			
ncentr	ation Units	(ug/L, ug or	mg/kg dry weigh	it): m	g/kg		
	CAS No.	Analyte	Concentration	C	Q	М	
	7429-90-5	Aluminum					
	7440-36-0	Antimony	1.2	J	N	MS	1.3
	7440-38-2	Arsenic	15.7		NE	MS	+ T.
	7440-39-3	Barium	18.7		N	MS	7+
	7440-41-7	Beryllium	0.22	J	E	MS	0.65
	7440-43-9	Cadmium	0.58	J	Ε	MS	J+ 0.65 0.69
	7440-70-2	Calcium					
	7440-47-3	Chromium	1.8			MS	<u>د.</u> مس
	7440-48-4	Cobalt	1.0			MS	المستحد المستحد
<u>4</u>	7440-50-8	Copper	104.		*NE	MS	1+
	7439-89-6	Iron					
	7439-92-1	Lead	1850		D*	MS	J 7
* *	7439-95-4	Magnesium					
7.7	7439-96-5	Manganese	630.			MS	
	7439-97-6	Mercury					
entalin pro-filtrasia.	7440-02-0	Nickel	1.3			MS-	
5.	7440-09-7	Potassium					,
."	7782-49-2	Selenium	1.2	J		MS	3.20
	7440-22-4	Silver	10.4		N	MS	1
į	7440-23-5	Sodium					ند
:	7440-28-0	Thallium	0.23	J		MS	3.20 5.5
	7440-62-2	Vanadium	23.7			MS	T-
	7440-66-6	Zinc	265.		*E	MS	7
	57-12 - 5	Cyanide					` ,
			······································	4			
		1		· · · · · · · · · · · · · · · · · · ·			, i
lor Be	fore: BROWN	Clarity	y Before:		Texture: CC	ARSE	
					n_1.5 = -1		
lor Af	ter: YELLOW	Clarity	y After: <u>CLEAR</u>		_ Artifacts:		
mments						E	
r. The	reported \mathbf{v}	alue is estima	ated due to the	prese	ence of inter	Leren	ce.

EPA SAMPLE NO.

мн35J8

					_		
Lab Name	: ALS Labor	atory Group	Contract:	EPW09	9036	•	
Lab Code	ode: DATAC Case No.: 40755		55 Mod. Ref.	No.:		SDG No.: M	IH35H7
Matrix:	Soil		Lab Sample	ID:	103077000	6	
% Solids	. 64 5	•	Date Recei	ved:	11/03/201	0	
0 001100	. 01.0		2000 10001				
Concentr	ation Units	s (ug/L, ug or	mg/kg dry weigh	nt):n	ng/kg		
	CAS No.	Analyte	Concentration	С	Ω	М	
	7429-90-5	Aluminum	2260			P	
	7440-36-0	Antimony					
	7440-38-2	Arsenic					•
	7440-39-3	Barium					
	7440-41-7	Beryllium					
	7440-43-9	Cadmium		ļ		·	2
	7440-70-2	Calcium	405.	J		P	775UP
	7440-47-3	Chromium			<u> </u>		
	7440-48-4	Cobalt					
	7440-50-8	Copper					
	7439-89-6	Iron	308000		ם	P	,
	7439-92-1	Lead					To
	7439-95-4	Magnesium	375.	J		P	77507
:	7439-96-5	Manganese					•
	7439-97-6	Mercury					
· •	7440-02-0	Nickel					
	7440-09-7	Potassium	418.	J		P	7750
	7782-49-2	Selenium					
	7440-22-4	Silver					ココニュエア
	7440-23-5	Sodium	43.9	J	Е	P	77505 m
	7440-28-0	Thallium					2/18/W
	7440-62-2	Vanadium					7/2
-	7440-66-6	Zinc			·		
	57-12 - 5	Cyanide	· · · · · · · · · · · · · · · · · · ·				
					<u></u>		٠
Galam Bar	Fame - DDOMI	(1) - m i 4	Dofonos		Mosstum	a. MEDTIM	
COTOL De.	fore: BROWN	Crarre	y Before:	•	rextur	e: MEDIUM	
Color Af	ter: YELLOW	Clarit	y After: CLEAR		Artifa	cts:	
			-	•		-	
Comments	:	•					
E: The	reported v	zalue is estim	ated due to the	pres	ence of i	nterferen	ce.
, 					·		
	-						
		•					

EPA SAMPLE NO.

МH	35J	8	

				МН				
Lab Name	: ALS Labora	tory Group	Contract:	EPW09036				
Lab Code	: DATAC C	ase No.: 4075	Mod. Ref.	Mod. Ref. No.: SDG No.: MH35H7				
Matrix:	Soil	*******	Lab Sample	ID: <u>1030770</u>	006			
% Solids	: 64.5		Date Recei	ved: 11/03/2	010			
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): mg/kg				
	CAS No.	Analyte	Concentration	C Q	М			
	7429-90-5	Aluminum				. 21		
	7440-36-0	Antimony	12.0	N	MS	IM		
	7440-38-2	Arsenic	29.3	NE		J+ 71 0.780J		
	7440-39-3	Barium	68.3	N	MS	J+ 72 -		
	7440-41-7	Beryllium	0.16	J E	MS	0.7807		
	7440-43-9	Cadmium	35.4	E	MS	丁龙		
	7440-70-2	Calcium						
	7440-47-3	Chromium	2.2		MS	70.7		
<u> </u>	7440-48-4	Cobalt	0.41	Ј*		0.780		
	7440-50-8	Copper	286.	*N	E MS	J+ "		
•	7439-89-6	Iron				T 2		
	7439-92-1	Lead	5080	ים "	MS]] ^		
	7439-95-4	Magnesium			·]		
	7439-96-5	Manganese	136.		MS]		
	7439-97-6	Mercury						
	7440-02-0	Nickel	0.36	E	MS	0.78UJ"		
•	7440-09-7	Potassium	A			3.9 Un		
	7782-49-2	Selenium	1.4	J	MS	3.90 "		
	7440-22-4	Silver	27.5	N	MS	7 2		
	7440-23-5	Sodium						
	7440-28-0	Thallium	0.10	J	MS	J- 72A		
	7440-62-2	Vanadium	49.7		MS	311		
	7440-66-6	Zinc .	11300	D*	E MS	72		
	57-12-5	Cyanide				J- 9 2/18/1		
•								
			L			J		
Color Be	fore: BROWN	Clarit	y Before:	Text	ure: COARSE			
Color Af	ter: YELLOW	Clarit	y After: CLEAR	Arti	facts:			
Comments					_			
E: The	reported v	alue is estin	ated due to the	presence of	interferer	ice.		

EPA	SAMPLE	NO.	
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Lab Name	: ALS Labora	tory Group	Contract:	EPW09036			
ab Code	: DATAC C	ase No.: 4075	5 Mod. Ref.	No.:	SDG N	lo.: M	H35H7
Matrix:	Soil		Lab Sample	ID: <u>10307</u>	70007		·
Solids	: 88.8		Date Recei	ved: <u>11/03</u>	/2010		 .
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mg/kg			
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	1130			P	
	7440-36-0	Antimony			-		*
	7440-38-2	Arsenic					
	7440-39-3	Barium					
	7440-41-7	Beryllium					
	7440-43-9	Cadmium					
	7440-70-2	Calcium	57.7	J		Р	563U7
	7440-47-3	Chromium		<u> </u>			06-
	7440-48-4	Cobalt					<u></u>
	7440-50-8	Copper	· · · · · · · · · · · · · · · · · · ·				
	7439-89-6	Iron	8170		· · · · · · · · · · · · · · · · · · ·	P	•
	7439-92-1	Lead	0170	<u> </u>		 - -	_
	7439-92-1	Magnesium	45.9	J		P	5630 m
	7439-95-4	Manganese	43.9		•		2007
	7439-98-3	Mercury				\vdash	
		Nickel					
	7440-02-0	Potassium	714.			P	J+ 2 563 UJ 2/18
	7440-09-7		144-			-	4
	7782-49-2	Selenium			•	┼──┤	
	7440-22-4	Silver	00.3	J	10	P	543 UT
	7440-23-5	Sodium	22.3		E	F	36004
	7440-28-0	Thallium				┟┈──┨	2/18
	7440-62-2	Vanadium		<u> </u>		 	
	7440-66-6	Zinc		<u> </u>			
÷	57-12-5	Cyanide	<u> </u>				
	-		<u>-</u>				
color Be	fore: YELLOW	Clarit	y Before:	Te	xture: MI	EDIUM	
			y After: CLEAR				
Comments	•						
		alue is estim	ated due to the	presence	of inter	feren	ce
			··				

EPA SAMPLE NO.

	: ALS Labora		Contract:	-			· · · · · · · · · · · · · · · · · · ·
Code	: DATAC C	Case No.: 407!	55 Mod. Ref.	No.: _	SDG	No.: 1	MH35H7
rix:	Soil		Lab Sample	ID: <u>1</u>	1030770007		·····
olids	: 88.8		Date Recei	ved: 1	11/03/2010		
centr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mg	ı∕kg		
	CAS No.	Analyte	Concentration	С	Q	М] .
	7429-90-5	Aluminum					
	7440-36-0	Antimony	13.5		N	MS	I H
	7440-38-2	Arsenic	34.9		NE	MS	3+ 7
	7440-39-3	Barium	83.8	-	N	MS	3+ 74 5+ 76 0.560;
	7440-41-7	Beryllium	0.21	J	E	MS	0.56 V
	7440-43-9	Cadmium	5.0		Е	MS	T 2
	7440-70-2	Calcium					
	7440-47-3	Chromium	1.3	<u> </u> -		MS	1
	7440-48-4	Cobalt	0.19	J	***************************************	MS	0.560
-	7440-50-8	Copper	211.		*NE	MS	T+ 7
	7439-89-6	Iron					1 1,
	7439-92-1	Lead	3880		D*	MS	J
ĺ	7439-95-4	Magnesium					1
-	7439-96-5	Manganese	423.			MS	
	7439-97-6	Mercury					
and and an advantage of section and	7440-02-0	Nickel	0.19			MS	05411
	7440-09-7	Potassium					0.000
	7782-49-2	Selenium	1.7	J		MS	2.80
i	7440-22-4	Silver	34.6		N	MS	TH
	7440-23-5	Sodium			•		1 7
	7440-28-0	Thallium	0.61			MS	
	7440-62-2	Vanadium	7.8			MS	I SK
ļ	7440-66-6	Zinc	1400		D≠E	MS	- m
Ī	57-12-5	Cyanide					7 m 2/10
ŀ							•
r Bei	fore: YELLOW	Clarit	y Before:		Texture: 1	MEDIUM	•
			y After: CLOUDY				
			<u> </u>		_	-	
ents:			ated due to the				

EPA	SAMPLE	NO.

мн35к0

Lab Nam	e: ALS Labora	tory Group	Contract:	EPWO9	9036		
		ase No.: 4075	Mod. Ref.	No.:	SDG	No.: I	4H35H7
Matrix:	Soil		Lab Sample	ID:	1030770008		
% Solid	s: <u>90.7</u>		Date Recei	ved:	11/03/2010		
Concent	ration Units	(ug/L, ug or	mg/kg dry weigh	ıt):π	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	1450			P	1
	7440-36-0	Antimony				-	
	7440-38-2	Arsenic		i			
	7440-39~3	Barium			<u> </u>		1
	7440-41-7	Beryllium				1	†
	7440-43-9	Cadmium					7.7
	7440-70-2	Calcium	259.	J	-	P	5510 M
	7440-47-3	Chromium				 	10010
	7440-48-4	Cobalt					
	7440-50-8	Copper					
	7439-89-6	Iron	16900			P	
	7439-92-1	Lead		 	<u> </u>	~	
	7439-95-4	Magnesium	72.4	J		P	5510 H
	7439-96-5	Manganese	1271	ا		<u> </u>	
	7439-97-6	Mercury			<u> </u>	1	
	7440-02-0	Nickel	SERVICE AND AND AND AND AND AND AND AND AND AND	HANNOTON TECHNOLOGY	TO THE RESIDENCE OF THE PROPERTY OF THE PROPER		PROGRAMMON MERCANISTICS CONSTRUCTION OF THE MANAGEMENT
	7440-09-7	Potassium	1240			P	J+ 2
	7782-49-2	Selenium	12-10	 -		 ~ -	7
	7440-22-4	Silver				 ,-	
		Sodium	59.0	J	E	P	551 UJ R 418/4
	7440-23-5		39.0	-	<u> </u>	P	
	7440-28-0	Thallium			<u> </u>	 	H18/U
	7440-62-2	Vanadium			ļ	-	
	7440-66-6	Zinc					
	57-12-5	Cyanide		 			·
						-	
		l			<u> </u>		İ
Color Be	efore: BROWN	Clarit	y Before:		Texture: M	EDTUM	
COTOL DO	DIOIC. DIOM		., Derore.				-
Color Af	ter: YELLOW	Clarit	y After: CLEAR		Artifacts:		
							
Comments							•
E: The	e reported va	alue is estim	ated due to the	pres	ence of inter	feren	ce.
						,	

EPA	SAMPLE	NO.
	~	110.

			÷			MH35	K0	
Lab Na	me: ALS Labo	ratory Group	Contract:	EPW09	0036		·	•
Lab Co	de: <u>DATAC</u>	Case No.: 407	55 Mod. Ref.	No.:		SDG No.: M	1Н35Н7	-
Matrix	: Soil		Lab Sample	ID:	10307700	08		
% Solid	ds: <u>90.7</u>		Date Recei	ved:	11/03/20	LO		•
Concent	tration Unit:	s (ug/L, ug or	mg/kg dry weigh	nt): m	g/kg			
•	CAS No.	Analyte	Concentration	c	Q	М		
	7429-90-5	Aluminum	*********					
	7440-36-0	Antimony	11.7	1	N	MS	T TH	- '
	7440~38-2	Arsenic	38.6		NE	MS	7+ 7	2
	7440-39-3	Barium	97.2		N	MS	7+	-11
	7440-41-7	Beryllium	0.32	J	E	MS	J+ 5.55	07 3
	7440-43-9	Cadmium	7.6		E	MS	J	72
	7440-70-2	Calcium					-	
	7440-47-3	Chromium	0.97	J		MS	1.1	ע "
and the state of t	7440-48-4	Cobalt	0.23	J	*	MS	0.55	UM
	7440-50-8	Copper	471.		*NE	MS	+ T	M
	7439-89-6	Iron					-	_
	7439-92-1	Lead	4920		D*	MS	J	7
	7439-95-4	Magnesium						
	7439-96-5	Manganese	122.			MS		
	7439-97-6	Mercury						
	7440-02-0	Nickel Nickel	0.17	است	E	MS	2.8 c	マエー
	7440-09-7	Potassium						
	7782-49-2	Selenium	1.8	J		MS	2.86	1 2
	7440-22-4	Silver	54.0		N	MS	\mathcal{I}	Ext.
	7440-23-5	Sodium					•	
	7440-28-0	Thallium	0.85			MS		1/3A 3/10/11
	7440-62-2	Vanadium	12.0			MS	7	ri Bitai
	7440-66-6	Zinc	2100		D*E	MS	*	L
	57-12-5	Cyanide						
							3/	18/11
	L	,					′	′
Color Be	efore: YELLOW	V Clarit	y Before:		_ Texture	e: MEDIUM		
Color A	fter: BROWN	Clarit	y After: CLOUDY		_ Artifac	ets:	<u></u>	
Comments	s:							
E: Th	e reported v	alue is estim	ated due to the	prese	nce of in	nterferenc	e	
						-		

EPA SAMPLE NO.

MH35K1	

PAC C	tory Group ase No.: 407 (ug/L, ug or Analyte		No.:	SDG 030770009 1/03/2010	No.: <u>M</u>	IH35H7
8 n Units	(ug/L, ug or	Lab Sample Date Recei	ID: 10	030770009	No.: <u>M</u>	H35H7
8 n Units	<u></u>	Date Recei	ved: <u>1</u>	1/03/2010		
n Units	<u></u>				· · ·	
AS No.	<u></u>	mg/kg dry weigh	ıt): mg/	/kg		
	Analvte	1				
_00_5	1	Concentration	С	Q	М	
···· 50-3	Aluminum	2020			P	
-36-0	Antimony				ļ	
-38-2	Arsenic					
-39-3	Barium					
-41-7	Beryllium					
-43-9	Cadmium					
-70-2	Calcium	807.			P	
-47-3	Chromium					
	Cobalt					
-50-8	Copper					: •
-89-6	Iron	21500			P	
-92-1	Lead					·
		950.			P	
	 	1460			Р	J+ 20 569 UI 2/18
				·····		7
						
		37.7	J	E	P	569 UI
			 		1	00.
	ļ					2/12
			 -			
						
2-3	Cyanitie		 		-	
			 			
	-38-2 -39-3 -41-7 -43-9 -70-2 -47-3 -48-4 -50-8 -89-6 -92-1 -95-4 -96-5 -97-6 -02-0 -09-7 -49-2 -22-4 -23-5 -28-0 -62-2 -66-6 2-5	1-39-3 Barium 1-41-7 Beryllium 1-43-9 Cadmium 1-70-2 Calcium 1-47-3 Chromium 1-48-4 Cobalt 1-50-8 Copper 1-89-6 Tron 1-92-1 Lead 1-95-4 Magnesium 1-96-5 Manganese 1-97-6 Mercury 1-96-7 Potassium 1-49-2 Selenium 1-22-4 Silver 1-23-5 Sodium 1-28-0 Thallium 1-62-2 Vanadium 1-66-6 Zinc Zinc	Barium	Barium	Barium	Barium Beryllium Beryllium Beryllium Beryllium Beryllium Boroni

EPA SAMPLE NO.

MH35K1

		tory Group Case No.: 4075	_	No.:	SDG	No.: M	н35н7	
trix:			Lab Sample					
			-					
Solids	s: <u>87.8</u>		Date Recei	ved: 1	1/03/2010			
ncentr	eation Units	(ug/L, ug or	mg/kg dry weigh	t): mg	/kg			
	CAS No.	Analyte	Concentration	С	Q	M		
	7429-90-5	Aluminum						21
	7440-36-0	Antimony	0.26	J	И	MS	1.6	N N N
	7440-38-2	Arsenic	90.2		NE	MS	14	77
	7440-39-3	Barium	72.1		N	MS	7-	- //(
	7440-41-7	Beryllium	0.30	J	Е	MS	0.5	103
	7440-43-9	Cadmium	1.1		E	MS	J	m
	7440-70-2	Calcium						11.3
	7440-47-3	Chromium	2.3			MS	_	-
	7440-48-4	Cobalt	880		*	MS		- gr 3.
	7440-50-8	Copper	111.		*NE	MS] 1	+ "
	7439-89-6	Iron						Tes
	7439-92-1	Lead	4510		D*	MS	1 1	THE STATE OF THE S
	7439-95-4	Magnesium					Į.,	
-	7439-96-5	Manganese .	843.		D .	MS		
	7439-97-6	Mercury					_	W
	7440-02-0	Nickel	0.74			MS		
	7440-09-7	Potassium					ر نسند ا	
	7782-49-2	Selenium	1.3	J		MS	2.8	U
	7440-22-4	Silver	8.4		N	MS] I	7
	7440-23-5	Sodium						
	7440-28-0	Thallium	1.2		D	MS	<u>}</u>	2/4
	7440-62-2	Vanadium	17.5			MS	J	W
	7440-66-6	Zinc	319.		*E	MS	J	70
	57-12-5	Cyanide						2/18/
							_	01/10/
]	
		<u> </u>						
or Be	efore: ORANGE	Clari	ty Before:		_ Texture:	MEDIUM		
or Af	ter: GREEN	Clari	ty After: CLOUD	Y	Artifacts	:		
					_	•		
ments								
		alme is estim	nated due to the	prese	nce of inte	rferer	ice.	

EPA	SAMPLE	NO.		
	MUSERO			

					rin 5.	71.2	
		_					
Lab Name	: ALS Labora	tory Group	Contract: E				
Lab Code: DATAC Case No.: 40755			Mod. Ref.	No.:	_ SDG No.:	мн35н7	
Matrix:	Soil	· · · · · · · · · · · · · · · · · · ·	Lab Sample	ID: 103077	0010		
% Solids	: 90.5		Date Recei	ved: <u>11/03/</u>	2010		
			•				
Concentr	ation Units	(ug/L, ug or m	g/kg dry weigh	it): mg/kg		· · ·	
	CAS No.	Analyte	Concentration	С	Q M		
	7429-90-5	Aluminum	11200		P		
	7440-36-0	Antimony					
	7440-38-2	Arsenic					
	7440-39-3	Barium					
	7440-41-7	Beryllium				_]	
	7440-43-9	Cadmium					
	7440-70-2	Calcium	1360		P		
	7440-47-3	Chromium					
	7440-48-4	Cobalt					
2 to 5 to 5 to 5 to 5 to 5 to 5 to 5 to	7440-50-8	Copper					
	7439-89-6	Iron	36000		P		
•	7439-92-1	Lead				-	
	7439-95-4	Magnesium	11100		P		
-	7439-96-5	Manganese	· · · · · · · · · · · · · · · · · · ·			7	
	7439-97-6	Mercury				-	,
	7440-02-0	Nickel					
	7440-09-7	Potassium	872.		Р	J+	
-	7782-49-2	Selenium					
	7440-22-4	Silver					71
	7440-23-5	Sodium	105.	J	E P	552	UI
	7440-28-0	Thallium					al al.
	7440-62-2	Vanadium	· · · · · · · · · · · · · · · · · · ·			-	UJ 718/11
	7440-66-6	Zinc					
	57-12-5	Cyanide				7	
	37-12-3	Cydniac				- I	
		 					
		<u> </u>		1			
Color Be	fore: BROWN	Clarity	Before:	Tex	cture: MEDIU	M	-
Color Af	ter: YELLOW	Clarity	After: CLEAR	Art	ifacts:		-
Comments	. •	•					
E: The	e reported v	alue is estima	ted due to the	presence o	of interfere	ence.	_
							_
							_
	•						

EPA	SAMPLE	NO.

MH35K2

					1	MHJ)KZ		
Lab Name	: ALS Labora	tory Group	Contract:	EPWO9	9036				
Lab Code	: DATAC C	Case No.: 4075	5 Mod. Ref.	No.:		SDG No.:	мн35н7		
Matrix:	Soil		Lab Sample	ID:	10307700	10		<u>-</u>	
% Solids	: 90.5	·	Date Recei	ved:	11/03/20	10			
								_	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt):π	ng/kg				
	CAS No.	Analyte	Concentration	С	Q	м			
	7429-90-5	Aluminum							
	7440-36-0	Antimony	0.25	J	N	MS	1.1 o.55	ט"	
	7440-38-2	Arsenic	96.8		NE	MS	T+	To	
	7440-39-3	Barium	34.9		N	MS] 'J'	- 78º 	21
	7440-41-7	Beryllium	0.20	J	E	MS] 0.53	207	ne.
	7440-43-9	Cadmium	0.55		E	MS] 0.55	50J	. 72
	7440-70-2	Calcium						*.	
	7440-47-3	Chromium	11.9			MS	_1	-wit	3/A
	7440-48-4	Cobalt	5.5		*	MS			31014
-	7440-50-8	Copper	47.1		*NE	MS]]+	M	
	7439-89-6	Iron						20	
	7439-92-1	Lead	1030		D*	MS]]	~	
	7439-95-4	Magnesium					」 .		
	7439-96-5	Manganese	1620		D	MS			
	7439-97-6	Mercury.						41	· · · · · · · · · · · · · · · · · · ·
	7440-02-0	Nickel	5.3		B	MS		-/	
	7440-09-7	Potassium						-1/	-
	7782-49-2	Selenium	0.60	J		MS	12.81	v	
	7440-22-4	Silver	5.7		N	MS]	THE	
	7440-23-5	Sodium							15
	7440-28-0	Thallium	0.36	J	ם	MS	_ [] [_ 71	ZA
	7440-62-2	Vanadium	62.1			MS			بالمار
	7440-66-6	Zinc	187.		*E	MS	」	n	
-	57-12-5	Cyanide						2/18	0/11
								2/10	710
Color Be	fore: BROWN	. Clarit	y Before:		Textu	re: MEDIUN	4		
Color Aft	er: WHITE		y After: CLOUDY			•		_	
								_	
Comments:									
E: The	reported v	alue is estima	ated due to the	pres	ence of i	interfere	ace.		
			<u> </u>						

ab Name	. MC Inhorn			÷	Γ	MH35	
ab Name	. MIC Inhora					131133	K3
	: Aro handra	tory Group	Contract: H	EPW09	0036		
ah Code		ase No.: 4075	Mod. Ref.	No.:	SDG No.: MH35H7		
an code	· DATAC C	<u> </u>					
atrix:	Soil		Lab Sample	ID:	10307700	11	
Solids	: 93.4		Date Recei	ved:	11/03/20	10	
oncentr	ation Units	(ug/L. ug or	mg/kg dry weigh	t): n	ng/kg		
Onconce		1		· · · ·	<u> </u>		7
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	665.			P	_
	7440-36-0	Antimony					_
	7440-38-2	Arsenic					4
	7440-39-3	Barium					4
	7440-41-7	Beryllium					
	7440-43-9	Cadmium					535 UZ
	7440-70-2	Calcium	34.8	J		P	1 220 0
	7440-47-3	Chromium			<u> </u>		_
	7440-48-4	Cobalt					
	7440-50-8	Copper					4
	7439-89-6	Iron	22200			Р	-
	7439-92-1	Lead				P	535UT
	7439-95-4	Magnesium	38.2	J			9930
	7439-96-5	Manganese					-
	7439-97-6	Mercury					
-	7440-02-0	Nickel	1000			P	T+ 70.
	7440-09-7	Potassium	1200				
	7782-49-2	Selenium					<u> </u>
	7440-22-4	Silver Sodium	53.9	J	E	P	525 U.T'
	7440-23-5 7440-28-0	Thallium	33.9				535 UJ 2/18
	7440-28-0	Vanadium					7 2/18
	7440-62-2	Zinc	·····		 		-
	57-12-5	Cyanide					7
	37-12-3	Cyanzac					-
		 					
		<u> </u>				\/	<u>.</u>
olor Be	fore: YELLOW	Clarit	y Before:		Textu	re: MEDIU	4
olor Af	ter: YELLOW	Clarit	y After: CLEAR		Artif	acts:	
omments	:						•
		alue is estim	ated due to the	pres	sence of .	interfere	nce.

EPA SAMPLE NO.

 	-
мн35к3	

					İ	мн35	кз	
ab Name: ALS	Labora	tory Group	Contract:	EPW09	9036			_
ab Code: DAT	AC C	ase No.: 4075	55 Mod. Ref.	No.:	sdg	No.: M	4H35H7	
atrix: <u>Soi</u>	1		Lab Sample	ID:	1030770011			<u></u>
Solids: 93.	4		Date Recei	ved:	11/03/2010	٠.		
oncentration	Units	(ug/L, ug or	mg/kg dry weigh	ıt): m	ng/kg			
CA	S No.	Analyte	Concentration	С	Q	м		
7429-	-90-5	Aluminum					İ	_
7440-	-36-0	Antimony	12.2	-	N	MS	J	n
7440-		Arsenic	55.2		NE	MS	75754 0.54 1.054 7.54	7
	-39-3	Barium	81.3		N	MS	T+	71
7440-	-417	Beryllium	0.11	J	Е	MS	0.54	ひまう
7440-	-43-9	Cadmium	40.0	<u> </u>	E	MS	+	THE
7440-	70-2	Calcium				1	~	_
7440-		Chromium	0.86	J		MS	1.10	74
7440-		Cobalt	0.35		*	MS	0.54	UM
7440-		Copper	4600		D*NE	MS	J+	M
7439-		Iron				110	7,	
7439-		Lead	15500		D*	MS	7	n
7439-		Magnesium	10000			130	~	
7439-		Manganese	177.			MS		
7439-		Mercury	# · · · ·			140		•
· · · · · · · · · · · · · · · · · · ·			0.27	7	B	MS	یاستے جد	(65 5 '
		Potassium	U.Z.	initian O minut	Δ		ר כיט	して
			2.4			7.0		
7782-		Selenium	3.4		5.7	MS	2	Δ.
7440-		Silver	113.		DN	MS	7,	3/10/1/
7440-		Sodium			· · · · · · · · · · · · · · · · · · ·			
7440-		Thallium	0.73			MS		المنابسين
7440-		Vanadium	7.1			MS	-	7 3/4 2/18/4
7440-		Zinc	10400		D*E	MS	J	92.
57-12	-5	Cyanide				<u> </u>		2/18/4
<u> </u>					 			1
<u> </u>		<u>, أ</u>						
			y Before:					-
nments:			ated due to the					_
				_				
					· · · · · · · · · · · · · · · · · · ·			-

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EPA	SAMPLE	NO.

MH35K4

					Mn3.	JK4
Lab Name	e: ALS Labora	tory Group	Contract:	EPW09036		
Lab Code	e: DATAC C	Case No.: 4075	5 Mod. Ref.	No.:	SDG No.:	МН35Н7
Matrix:	Soil		Lab Sample	ID: 103077	0012	
% Solids	s: 92.5		Date Recei	ved: 11/03/	2010	
			•			
Concenti	ration Units	(ug/L, ug or	mg/kg dry weigh	it): mg/kg		
	CAS No.	Analyte	Concentration	С	Q M	
	7429-90-5	Aluminum	13000		P	
	7440-36-0	Antimony				
	7440-38-2	Arsenic				
	7440-39-3	Barium				
	7440-41-7	Beryllium				
	7440-43-9	Cadmium				<b>-</b>
•	7440-70-2	Calcium	2030		P	
	7440-47-3	Chromium				
	7440-48-4	Cobalt				
-	7440-50-8	Copper				
	7439-89-6	Iron	25200		P	
	7439-92-1	Lead				
	7439-95-4	Magnesium	1.2700		P	]
	7439-96-5	Manganese				
	7439-97-6	Mercury				
V8 *25 *	7440-02-0	Nickel				
	7440-09-7	Potassium	671.		P	J J + ~
	7782-49-2	Selenium				
-	7440-22-4	Silver				
	7440-23-5	Sodium	64.3	J _	E P	541 UJ 2/18/
	7440-28-0	Thallium				1. 01.01
	7440-62-2	Vanadium				2/10/
	7440-66-6	Zinc				
	57-12-5	Cyanide				
	` `					
Color Be	fore: YELLOW	Clarit	y Before:	Text	ture: MEDIU	<u></u>
		<del></del>	y After: CLEAR		ifacts:	
		<b></b>	<del></del>	,		<del></del>
Comments	:					
E: The	e reported va	alue is estima	ated due to the	presence of	f interfere	nce.
					<u>-</u>	
-						<del>.</del>
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EPA SAMPLE NO.

MH35K4

						MH351	K.4
Lab Name	: ALS Labora	tory Group	Contract:	EPW09	036		
Lab Code	: DATAC C	ase No.: 4075	Mod. Ref.	Ño.:	S	EDG No.: M	MH35H7
Matrix:	Soil	. <u></u>	Lab Sample	ID:	103077001	2	
% Solids	: 92.5	- <del></del>	Date Recei	ved:	11/03/201	0	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): m	ıg/kg		_
	CAS No.	Analyte	Concentration	C	Q	М	
	7429-90-5	Aluminum					- A
	7440-36-0	Antimony	0.54	J	N	MS	111 0 74
	7440-38-2	Arsenic	32.8		NE	MS	It n
	7440-39-3	Barium	46.1		N	MS	0.54 UJ 7
	7440-41-7	Beryllium	0.35	J	E	MS	10.54 UT 1
	7440-43-9	Cadmium	0.70	-	E	MS	J W
	7440-43-3	Calcium	0.70				1 "
	7440-70-2	Chromium	10.0			MS	Λ
		<del></del>		************		MS	7 7 7 7 10
	7440-48-4	Cobalt	4.6			-	J+ 12
	7440-50-8	Copper	33.1		*NE	MS	7
	7439-89-6	Iron			5.		- 4
	7439-92-1	Lead	2260		D*	MS	1 "
	7439-95-4	Magnesium					
· ·	7439-96-5	Manganese	3280		D	MS	
	7439-97-6	Mercury					
	7440-02-0	Nickel	5.3	V EUR KITTER	E	MS	
	7440-09-7	Potassium					
	7782-49-2	Selenium	0.83	J		MS	2.70 4
	7440-22-4	Silver	4.6		N	MS	7 4
	7440-23-5	Sodium					] ,
	7440-28-0	Thallium	0.38	J		MS	J- 2 11
	7440-62-2	Vanadium	60.8			MS	子 流
	7440-66-6	Zinc	210.		*E	MS	+ R.
•	57-12-5	Cyanide					olelu
		<u> </u>	· · · · · · · · · · · · · · · · · · ·				4 PM
, 1	***			ll	L		l
Color Be	fore: BROWN	Clarit	y Before:		Textur	e: MEDIUM	
	ter: BROWN		y After: CLOUD		<del></del>	cts:	
		<del> </del>					·
Comments							•
E: The	reported va	alue is estim	ated due to the	pres	ence of i	nterferen	ce
						•	<del>-</del>

EPA SAMPLE NO.
MH35K5
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SDG No.: MH35H7
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010
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М

Contract: EPW09036 Lab Name: ALS Laboratory Group Lab Code: DATAC Case No.: 40755 Mod. Ref. No.: Lab Sample ID: 10307700 Matrix: Soil Date Received: 11/03/20 % Solids: 90.3 Concentration Units (ug/L, ug or mg/kg dry weight): mg/kg Concentration Q CAS No. Analyte 906. 7429-90-5 Aluminum 7440-36-0 Antimony 7440-38-2 Arsenic 7440-39-3 Barium Beryllium 7440-41-7 7440-43-9 Cadmium J 48.6 7440-70-2 Calcium 7440-47-3 Chromium Cobalt 7440-48-4 7440-50-8 Copper 7700 P 7439-89-6 Iron 7439-92-1 Lead 118. J 7439-95-4 Magnesium 7439-96-5 Manganese 7439-97-6 Mercury Nickel 7440-02-0 961. 7440-09-7 Potassium 7782-49-2 Selenium 7440-22-4 Silver Е J 53.1 7440-23-5 Sodium 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc Cyanide 57-12-5

Color Before	: GRAY	Clarity Befo	re:	Texture: MEDIUM
Color After:	YELLOW	Clarity Afte	r: CLEAR	Artifacts:
Comments:				
E. The re-	norted value	e is estimated d	ue to the prese	ence of interference.

EPA SAMPLE NO.

MH35K5

		atory Group Case No.: 407	Contract: E		SDG	No.: M	н35н7
Code	e: DAIAC	:					
rix:	Soil	1.	Lab Sample	ID:	030770013		
olids	s: <u>90.3</u>		Date Recei	ved: j	1/03/2010		<u>:</u>
centi	cation Units	ug/L, ug or	mg/kg dry weigh	t): mg	r/kg		
•	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum		<u>-</u>			
	7440-36-0	Antimony	0.99	J	N	MS	1.12
	7440-38-2	Arsenic	13.6		NE	MS	J+
	7440-39-3	Barium	37.1		N	MS	J +
	7440-41-7	Beryllium	0.13	J	E	MS	0.55
	7440-43-9	Cadmium	0.53		E	MS	1.11
	7440-70-2	Calcium					
	7440-47-3	Chromium	0.46	J		MS	1,1
	7440-48-4	Cobalt	0.12	ச	***************************************	MS	l か.5
	7440-50-8	Copper	63.1		*NE	MS	1+
	7439-89-6	Iron					1
	7439-92-1	Lead	1050		D*	MS	I
	7439-95-4	Magnesium					<b>.</b> .
	7439-96-5	Manganese	135.			MS	]
	7439-97-6	Mercury					0.5 2.8 J
******	7440-02-0	Nickel	0.14	J	Ė	MS	0.5
	7440-09-7	Potassium					
	7782-49-2	Selenium	0.90	J		MS	2.8
	7440-22-4	Silver	6.9		И	MS	1 5
	7440-23-5	Sodium					] _
	7440-28-0	Thallium	0.43	J		MS	J J-
	7440-62-2	Vanadium	4.9			MS	1-1-
	7440-66-6	Zinc	140.		*E	MS	444
	57-12-5	Cyanide					]
						1	]
	·			<u> </u>			•
or Be	efore: GREEN	Clari	ty Before:		Texture:	WEDIUM	
or A	fter: GREEN	Clari	ty After: CLOUD	Y	Artifacts	s: _	
ments							•
E: Th	e reported	value is esti	mated due to the	prese	ence of inte	erferer	ice.

SIS DATA SHEET EPA SAMPLE NO.

MH35K6	

Code: DATAC Case No.: 40755			***************************************		SDG No.: MH35H7			
rix:	Soil		Lab Sample	ID:	1030770014		•	
olids	91.4		Date Recei	ved: [	11/03/2010			
centra	ation Units	(ug/L, ug or	mg/kg dry weigh	t): mg	g/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	3270		*	P		
	7440-36-0	Antimony					·	
	7440-38-2	Arsenic				<u>.                                     </u>		
	7440-39-3	Barium						
	7440-41-7	Beryllium						
	7440-43-9	Cadmium					5470 m	
	7440-70-2	Calcium	246.	J		P	3710	
	7440-47-3	Chromium						
	7440-48-4	Cobalt						
	7440-50-8	Copper		L	<del>.</del>			
	7439-89-6	Iron	46300		D	P		
	7439-92-1	Lead		ļ				
	7439-95-4	Magnesium	1920			P	• •	
	7439-96-5	Manganese			·		•	
	7439-97-6	Mercury						
	7440-02-0	Nickel		7777777777			T + 7,	
	7440-09-7	Potassium	769.			P		
	7782-49-2	Selenium						
,	7440-22 <b>-4</b>	Silver					547 UJ 2/18/1	
	7440-23-5	Sodium	70.9	J	E	P	1 24/01	
	7440-28-0	Thallium					ol al.	
	7440-62-2	Vanadium					4/18/6	
	7440-66-6	Zinc			······································			
	57-12-5	Cyanide					1	
							· .	
				<u> </u>	·			
	F DDOMN	Clari	ty Before:		. Texture:	MEDIUM	[	
	fore: BROWN		-					
lor Af	ter: YELLOW	Clari	ty After: <u>CLEAR</u>		Artifacts	s:		
		***						
nments	•				ence of inte			

EPA	SAMPLE	NO

 мн35	К6	

Lab Name: ALS Laboratory Group	
Lab Code: DATAC	
Solids: 91.4   Date Received: 11/03/2010	
Concentration Units (ug/L, ug or mg/kg dry weight): mg/kg  CAS No. Analyte Concentration C Q M  7429-90-5 Aluminum  7440-36-0 Antimony 3.6 N MS  7440-38-2 Arsenic 37.7 NE MS  7440-39-3 Barium 68.4 N MS  7440-41-7 Beryllium 0.19 J E MS  7440-43-9 Cadmium 9.0 E MS	
CAS No. Analyte Concentration C Q M  7429-90-5 Aluminum  7440-36-0 Antimony 3.6 N MS  7440-38-2 Arsenic 37.7 NE MS  7440-39-3 Barium 68.4 N MS  7440-41-7 Beryllium 0.19 J E MS  7440-43-9 Cadmium 9.0 E MS	_
7429-90-5 Aluminum 7440-36-0 Antimony 3.6 N MS 7440-38-2 Arsenic 37.7 NE MS 7440-39-3 Barium 68.4 N MS 7440-41-7 Beryllium 0.19 J E MS 7440-43-9 Cadmium 9.0 E MS	
7440-36-0       Antimony       3.6       N       MS         7440-38-2       Arsenic       37.7       NE       MS         7440-39-3       Barium       68.4       N       MS         7440-41-7       Beryllium       0.19       J       E       MS         7440-43-9       Cadmium       9.0       E       MS	
	m
	21
	11
	- 11+ 7
	, 04
7440-70-2 Calcium	-67
7440-47-3 Chromium 2.7 MS	
7440-48-4 Cobalt 1.5 + MS	79 79
7440-50-8 Copper 285. *NE MS J+	<b>W</b> .
7439-89-6 Iron	4
7439-92-1 Lead 3170 D* MS	
7439-95-4 Magnesium	
7439-96-5 Manganese 433. MS	
7439-97-6 Mercury	7
7440-02-0 NIGREI	
7440-09-7 Potassium 1.3 J MS 2.7	11 4
7702-43-2 Deletitum	KaA h
7440-22-4 Silver 223	Ritor
7440-23-5 Sodium  7440-28-0 Thallium 0.37 J MS 7	F JA
7440-25-0 Indition	
7440-62-2 Vanadium 15.4 MS 7440-66-6 Zinc 2580 D*E MS 7	4 2/18/u
7440-66-6 Zinc 2580 D*E MS \( \square\)	al al.
57-12-5 Cyanide	2/1814
The Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Association of the Associati	
Color Before: BROWN Clarity Before: Texture: MEDIUM	<del></del> .
Color After: BROWN Clarity After: CLOUDY Artifacts:	
Comments:	
E: The reported value is estimated due to the presence of interference.	. <del>-</del>
	_

EPA SAMPLE NO.

MH35K7

Matrix: Soil Lab Sample ID: 1030770015  \$ Solids: 83.7 Date Received: 11/03/2010  Concentration Units (ug/L, ug or mg/kg dry weight): mg/kg    CAS No.			•			<u></u>	мн35к	7	
Lab Code: DATAC	Lab Name	: ALS Labora	tory Group	Contract: <u>F</u>	PW0903	36			
Solids: 83.7   Date Received: 11/03/2010							No.: M	н35Н7	
Concentration Units (ug/L, ug or mg/kg dry weight): mg/kg    CAS No.	Matrix:	Soil		Lab Sample	ID: <u>10</u>	30770015	<del> </del>		
T429-90-5	% Solids	: 83.7		Date Recei	ved: <u>1</u>	1/03/2010		·	
T429-90-5	Concentr	ation <b>Uni</b> ts	(ug/L, ug or	mg/kg dry weigh	t): mg/	′kg			-
T440-36-0		CAS No.	Analyte	Concentration	С	Q	М		
7440-36-0 Antimony 7440-38-2 Arsenic 7440-39-3 Barium 7440-41-7 Beryllium 7440-43-9 Cadmium 7440-70-2 Calcium 1540 P 7440-70-2 Calcium 1540 P 7440-50-8 Copper 7439-89-6 Iron 55900 D P 7439-95-1 Lead 7439-95-4 Magnesium 9940 P 7439-95-6 Manganese 7439-97-6 Mercury 740-09-7 Potassium 1090 P 740-09-7 Potassium 1090 P 740-22-4 Silver 7440-23-5 Sodium 59.2 J E P 7440-28-0 Thallium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM Color After: YELLOW Clarity After: CLEAR Artifacts:		7429-90-5	Aluminum	19500			P	·	
7440-38-2			<u> </u>						
T440-39-3   Barium			·						
T440-41-7   Beryllium	-		_ <del></del>						
7440-3-9			1						
T440-70-2   Calcium   1540   P   T440-47-3   Chromium   T440-48-4   Cobalt   T440-50-8   Copper   T439-89-6   Iron   T55900   D   P   T439-92-1   Lead   T439-96-5   Manganese   T439-97-6   Mercury   T749-02-0   Nickel   T740-02-4   Silver   T740-22-4   Silver   T740-23-5   Sodium   T740-23-5   Sodium   T740-23-5   Sodium   T740-23-5   Sodium   T740-23-5   Sodium   T740-23-5   Cyanide   T740-23-5   Cyanide   Texture: MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDIUM   MEDI									
7440-47-3   Chromium   7440-48-4   Cobalt   7440-50-8   Copper   7439-89-6   Iron   55900   D   P   7439-92-1   Lead   7439-95-4   Magnesium   9940   P   7439-96-5   Manganese   7439-97-6   Mercury   7440-02-0   Nickel   7440-02-0   Nickel   7440-02-2   Selenium   782-49-2   Selenium   782-49-2   Selenium   7840-22-4   Silver   7440-23-5   Sodium   59.2   J   E   P   597   UJ   7440-66-6   Zinc   57-12-5   Cyanide   Color Before: BROWN   Clarity Before: Texture: MEDIUM   Color After: YELLOW   Clarity After: CLEAR   Artifacts:   Comments:		<del></del>		1540			P		
7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 55900 D P 7439-92-1 Lead 7439-92-1 Lead 7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Nickel 7440-09-7 Potassium 1090 P 7782-49-2 Selenium 7440-22-4 Silver 7440-22-4 Silver 7440-23-5 Sodium 59.2 J E P 7440-28-0 Thallium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM Color After: YELLOW Clarity After: CLEAR Artifacts:									
T440-50-8   Copper   T439-89-6   Iron   T439-89-6   Iron   T439-92-1   Lead   T439-95-4   Magnesium   T439-95-4   Magnesium   T439-95-6   Manganese   T439-97-6   Mercury   T440-02-0   Mekel   T440-09-7   Potassium   T440-09-7   Potassium   T440-22-4   Silver   T440-23-5   Sodium   T440-23-5   Sodium   T440-23-5   Sodium   T440-23-5   Sodium   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   T440-66-6   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Zinc   Z			<u> </u>						
7439-89-6									
7439-92-1 Lead 7439-95-4 Magnesium 9940  7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Nickel 7480-02-0 Nickel 7480-02-1 Selenium 7480-22-4 Silver 7480-23-5 Sodium 59.2 J E P 597 UJ 7480-28-0 Thallium 7480-62-2 Vanadium 7480-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:			· <del> </del>	55900		D	Р		!
7439-95-4 Magnesium 9940 P 7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Nickel 7440-09-7 Potassium 1090 P 7782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 59.2 J E P 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				30300		·····			
7439-96-5 Manganese 7439-97-6 Mercury 7440-02-0 Niekel 7440-03-7 Potassium 1090 P 77782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 59.2 J E P 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				9940			P		
7439-97-6 Mercury 7440-02-0 Niekel 7440-09-7 Potassium 1090 P 7782-49-2 Selenium 7440-22-4 Silver 7440-23-5 Sodium 59.2 J E P 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:	<b>-</b>								
7440-02-0   Nickel									
T440-09-7			-{						
7440-23-5 Sodium 59.2 J E P 59.7 UJ 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				1090		***************************************	Р	7+	W
7440-23-5 Sodium 59.2 J E P 59.7 UJ 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				1030				7	•
7440-23-5 Sodium 59.2 J E P 59.7 UJ 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:									-01
7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				50.2	<del></del>	E	P	597	UT"
7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:				39.2	-		<del></del>	317	ما وا
7440-66-6 Zinc 57-12-5 Cyanide  Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:						····	_		4 18/U
Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:		<u> </u>							
Color Before: BROWN Clarity Before: Texture: MEDIUM  Color After: YELLOW Clarity After: CLEAR Artifacts:  Comments:					-				
Color After: YELLOW Clarity After: CLEAR Artifacts:	•	57-12-5	Cyanide						
Color After: YELLOW Clarity After: CLEAR Artifacts:						<del></del>			
Color After: YELLOW Clarity After: CLEAR Artifacts:			<u> </u>				<u> </u>		•
Comments:	Color Be	fore: BROWN	Clari	ty Before:		_ Texture: ]	MEDIUM		
Comments:  E: The reported value is estimated due to the presence of interference.	Color Af	ter: YELLOW	Clari	ty After: CLEAR		_ Artifacts	:		
E: The reported value is estimated due to the presence of interference.	Commonts	•							
A: The reported value is estimated due to the passanes of	COllane II Ca	. mamartad E	oluo ie eetim	mated due to the	prese	nce of inte	rferen	ce.	
	E: Th	e reborred A	GTHE TO COLT	acce acc to the	P. 300.				

EPA SAMPLE NO.

MH35K7

Matrix:		Case No.: 407	Lab Sample		SDG 030770015			<del></del>
% Solids	s: 83.7		Date Recei	ved: <u>1</u>	1/03/2010			
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mg	/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum					_	. 70
	7440-36-0	Antimony	0.41	J	N	MS	1.2	OF H H H
•	7440-38-2	Arsenic	31.9		NE	MS	7.	1 11
	7440-39-3	Barium	154.		N	MS		n
	7440-41-7	Beryllium	0.79		<u>E</u>	MS	2 +	n H
	7440-43-9	Cadmium	3.7	<u> </u>	E	MS	J	n
	7440-70-2	Calcium		<b></b>		140		15
	7440-47-3	Chromium	9.9			MS		
	7440-48-4	Cobalt	162.		*NE	MS	J+	n
	7440-50-8 7439-89-6	Copper Iron	102.	-	"NE	113	4.	
	7439-92-1	Lead	1070	<del></del>	D*	MS	T	7
	7439-95-4	Magnesium	1070	<del>                                     </del>		HO	-	
J	7439-96-5	Manganese	5570	<b></b>	D	MS		
	7439-97-6	Mercury	3373			1		
	7440-02-0	Nickel	9.5			MS		-77 ·
	7440-09-7	Potassium	TOPP	<b></b>				
	7782-49-2	Selenium	0.52	J		MS	3,0	UM
	7440-22-4	Silver	2.7		N	MS	1	N
	7440-23-5	Sodium					,	
	7440-28-0	Thallium	0.56	J		MS	•	بالسيد
	7440-62-2	Vanadium	47.5			MS	3	2/18/1
	7440-66-6	Zinc	498.		*E	MS	I	Ø1 . 1 . 1
	57-12-5	Cyanide						2/18/4
		•						
Color Be	fore: BROWN	Clari	ty Before:		Texture: M	EDIUM		
Color Af	ter: BROWN	Clari	ty After: CLOUD	Y	Artifacts	}		
	-							
Comments			nated due to the			_		

EPA	SAMPLE	NO.
	MH35K8	

		. •				MH351	K8	
b Name	: ALS Labor	atory Group	Contract:	EPW090	36			
b Code	e: DATAC	Case No.: 407	55 Mod. Ref.	No.: _	SDG	No.: M	H35H7	
trix:	Soil		Lab Sample	ID: ]	1030770016			
Solids	s: <u>75.3</u>	·	Date Recei	ved: ]	11/03/2010	····		
ncentr	ation Units	(ug/L, ug o	mg/kg dry weigh	ıt): mç	ı/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	13600			P		٠
	7440-36-0	Antimony						
**	7440-38-2	Arsenic				1		
	7440-39-3	Barium		<u>                                     </u>				
	7440-41-7	Beryllium		<del>                                     </del>		- <del> </del>		
	7440-43-9	Cadmium		<del>                                     </del>		<del> </del>		. •
	7440-70-2	Calcium	1310			P	·	
	7440-47-3	Chromium						
	7440-48-4	Cobalt				<del></del>		
	7440-50-8	Copper			A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
	7439-89-6	Iron	37200		· · · · · · · · · · · · · · · · · · ·	P		
	7439-92-1	Lead	37200	<b></b>				
			7200			P		
	7439-95-4	Magnesium	7200					-
	7439-96-5	Manganese						
	7439-97-6	Mercury						
	7440-02-0	Nickel		######################################	Committee and the second of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		7/11	
	7440-09-7	Potassium	645.			P.	664 i	U
	7782-49-2	Selenium						
	7440-22-4	Silver						
	7440-23-5	Sodium	22.1	J	E	P	6641	ひず
	7440-28-0	Thallium						01
	7440-62-2	Vanadium				<u> </u>	٠	715
	7440-66-6	Zinc						•
	57-12-5	Cyanide						
or Be	fore: BROWN	Clari	ty Before:		Texture: M	EDIUM		
or Af	ter: YELLOW	Clari	ty After: CLEAR		_ Artifacts:	·		
ments	•							
		alue is esti	mated due to the	prese	nce of inter	feren	ce.	

EPA SAMPLE NO.

					Γ	мн35	K8	7
Lab Nam	e: ALS Labo	ratory Group	Contract:	rpwn9	136 L	<u> </u>		_[
								-
Lab Cod	e: DATAC	Case No.: <u>407</u>	55 Mod. Ref.	No.:		SDG No.:	MH35H7	_
Matrix:	Soil		Lab Sample	ID:	103077001	.6	-	_
% Solid	s: <u>75.3</u>		Date Recei	ved:	11/03/201	.0 .		_
Concent:	ration Unit	s (va/L. na or	mg/kg dry weigh	+1 - m	a / le a			
	CAS No.	Analyte	T	- 1	-		1	
			Concentration	С	Q	М	_	
	7429-90-5	Aluminum					1,30	, He
	7440-36-0	Antimony	0.59	J	N	MS	1,30	1
	7440-38-2 7440-39-3	Arsenic	25.8		NE	MS	1777	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	7440-39-3	Barium	74.3		И	MS	174	The
	7440-41-7	Beryllium Cadmium	1.3		E	MS	1 1 +	74
	7440-70-2	Calcium	6.0		E	MS	J	7-
	7440-47-3	Chromium	7.1				4 .	18.4
	7440-48-4	Cobalt	12.3		· * ·	MS	4	- Polit
	7440-50-8	Copper	516.		<del></del>	MS		72
	7439-89-6	Iron	316.		*NE	MS	1+	TH.
	7439-92-1	Lead	481.		*			Dr.
	7439-95-4	Magnesium	401.		*	MS	1	~
	7439-96-5	Manganese	4710	<del></del>		- 1	:	
	7439-97-6	Mercury	4/10		D	MS		
	7440-02-0	Nickel	10.3					H
	7440-09-7	Potassium				-MS		
,	7782-49-2	Selenium	0.35	J			0211	H
	7440-22-4	Silver	2.0	<del></del>  -	N	MS	3.30	4
	7440-23-5	Sodium	2.0		N	MS	7	
4	7440-28-0	Thallium	0.41	J		NG.		H
	7440-62-2	Vanadium	32.5			MS MS	4	- KA
	7440-66-6	Zinc	651.		D*E	MS		Tholi
	57-12-5	Cyanide				PIO	7	2 2/18/10
							à	418/14
i						-		ı
ļ			<u> </u>	L				
lor Be	fore: BROWN	Clarit	y Before:		Texture	e: MEDIUM		
			y After: CLEAR					
mments:								
		alue is estim	ated due to the	02000	nan as :-			
	- Loported (	GTAG TO COLLIN	area ans to tue	prese	nce or in	terreren	ce.	
		······································	· · · · · · · · · · · · · · · · · · ·		17.0			
			•					

EPA SAMPLE NO.

						1	<u> </u>
Name	: ALS Labora	atory Group	Contract:	EPW09	9036		
Code	: DATAC C	Case No.: 407	55 Mod. Ref.	No.:		SDG No.	<u>мн35н7</u>
rix:	Soil		Lab Sample	ID:	10307700	017	
olids	: 14.8		Date Recei	.ved:	11/03/20	010	
centr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): n	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	N	1
	7429-90-5	Aluminum	6720			F	,
	7440-36-0	Antimony					
	7440-38-2	Arsenic					
	7440-39-3	Barium					
	7440-41-7	Beryllium				•	
	7440-43-9	Cadmium					•
	7440-70-2	Calcium	2040	J		E	3380 U
	7440-47-3	Chromium		<u> </u>			
	7440-48-4	Cobalt				***************************************	erene en el serve comerce d'onne el more, el mesos en el meso el monomen en
	7440-50-8	Copper					
	7439-89-6	Iron	141000			E	· ·
	7439-92-1	Lead					
	7439-95-4	Magnesium	2120	J		F	3380 1
	7439-96-5	Manganese					<b></b>
	7439-97-6	Mercury		<u> </u>			
	7440-02-0	Nickel					
	7440-09-7	Potassium	1130	J		P	3380 U
	7782-49-2	Selenium					
1	7440-22-4	Silver		<u> </u>			$\neg$
	7440-23-5	Sodium	139.	J	E	P	□ 3380 U.
	7440-28-0	Thallium					
ľ	7440-62-2	Vanadium					
I	7440-66-6	Zinc					
İ	57-12-5	Cyanide					7
•		•					
	fore: BROWN		ty Before:			re: MEDIC	* ***
ents:	· .		ty After: CLEAR		<del></del>		
The	reported v	alue is estim	nated due to the	pres	ence of	interfer	ence.
						-	

EPA SAMPLE NO.

MH35K9

					<u> </u>		<del></del>	<del></del>	
Lab Name	: ALS Labora	tory Group	Contract: ]	EPW09	036			_	
Lab Code	e: DATAC C	ase No.: 4075	55 Mod. Ref.	No.:	SDG N	lo.: M	н35н7	_	
Matrix:	Soil		Lab Sample	ID:	1030770017			<del></del>	
% Solids	: 14.8		Date Recei	ved:	11/03/2010		,	_	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): m	ıg/kg				
	CAS No.	Analyte	Concentration	С	Q	М			
	7429-90-5	Aluminum						· . 5	<b>P</b>
	7440-36-0	Antimony	5.2	J	N	MS	6.8	U	
	7440-38-2	Arsenic	42.6		NE	MS	5+	7	
	7440-39-3	Barium	119.		N	MS	44	The	-
	7440-41-7	Beryllium	0.84	J	Ε .	MS	0.0	/ / /	٠.
	7440-43-9	Cadmium	1.7	J	E	MS	3,4	UJ	WZ
	7440-70-2	Calcium					.0.		
	7440-47-3	Chromium	19.7			MS	_		KA.
	7440-48-4	Cobalt	4.8		*	MS			3/10/1
	7440-50-8	Copper	303.		*NE	MS	1	_3r_ 	-:
	7439-89-6	Iron							
	7439-92-1	Lead	668.		*	MS	7	ス	
	7439-95-4	Magnesium							
· • • •	7439-96-5	Manganese	1180		•	MS			-
	7439-97-6	Mercury						-7.	•
	7440-02-0	Nickel	5.9		E	-MS-		7	
	7440-09-7	Potassium							
	7782-49-2	Selenium	2.0	J		MS	17 6	) M	
	7440-22-4	Silver	27.1		N	MS		21	
	7440-23-5	Sodium						re	
	7440-28-0	Thallium	0.31	J		MS	J-	Denne	الح
	7440-62-2	Vanadium	20.8			MS	I		المالو
	7440-66-6	Zinc	350.		*E	MS	J	74 H18	
	57-12-5	Cyanide					•	2/18	Įμ į

	arity After: CLEAR	Artifacts:
Commontat		
Comments:		
E: The reported value is es	timated due to the pres	ence of interference.

EPA SAMPLE NO			
	EPA	SAMPLE	NO.

MH35L0	

				•		MH.	35L0	
Lab Name	: ALS Labora	tory Group	Contract:	EPW09	9036			٠
Lab Code	: DATAC C	Case No.: 40755	Mod. Ref.	No.:	· · · · · · · · ·	SDG No.	: мнз5н7	
Matrix:	Soil		Lab Sample	: ID:	10307700	18		
% Solids	: 69.6		Date Recei	.ved:	11/03/20	10		
Concentr	ation Units	(ug/L, ug or i	ng/kg dry weigh	nt): n	ng/kg			
	CAS No.	Analyte	Concentration	С	Q	ŀ	1	•
	7429-90-5	Aluminum	3020	1		I	?	
	7440-36-0	Antimony						
	7440-38-2	Arsenic		l			_	
	7440-39-3	Barium		İ	· · · · · · · · · · · · · · · · · · ·		_	
	7440-41-7	Beryllium					<del> </del>	
	7440-43-9	Cadmium					<del> </del>	
	7440-70-2	Calcium	223.	J	<del> </del>	F	7181	)
	7440-47-3	Chromium	2207	· •			─ <b>/ ′′</b> `	
	7440-48-4	Cobalt	·- ··· · · · · · · · · · · · · · · · ·	<del>                                     </del>			<del>  </del>	·.
	7440-50-8	Copper						
	7439-89-6	Iron	5150			E	,—	
	7439-92-1	Lead	3130				· ·	
	7439-95-4	Magnesium	1090				,	
-	7439-95-4	Manganese	1090					
	7439-90-5	Mercury		<b></b> -				
	7440-02-0	Nickel						
	7440-02-0	{	307.	anare of mar	T. C. ST. T. ST. ST. ST. ST. ST. ST. ST. ST.		718	0 #/ 0 T #/ 2/18/11
		Potassium	307.	J		P	<u> </u>	<b>Y</b>
	7782-49-2	Selenium						
	7440~22-4	Silver	A				,0	17-76
	7440-23-5	Sodium	23.0	J	E	P		0 3
	7440-28-0	Thallium						2/18(1.0
	7440-62-2	Vanadium						
	7440-66-6	Zinc		I				
	57 <b>-12-</b> 5 ,	Cyanide					_	
ŀ		L						
a-1 b	DDOVB1	Q1	<b>5</b> -5-					
COTOL Rei	fore: BROWN.	Clarity	Before:		Textur	re: MEDIU	JM	•
Color Aft	er: YELLOW	Clarity	After: CLEAR		Artifa	acts:		
C		•						
Comments:								
E: The	reported va	alue is estima	ted due to the	pres	ence of i	interfer	ence.	
<del></del>								

EPA SAMPLE NO.

MH35L0

Matrix:	Soil	-	Lab Sample	 ID: 1	.030770018	_		_
k Solids	60 6		-	_				
g POTTOR	3: 09.0		Date Recei	vea: ī	.1/03/2010			<del></del>
Concentr	cation Units	(ug/L, ug or	mg/kg dry weigh	ıt): mg	/kg			
	CAS No.	Analyte	Concentration	С	Q	М	] .	
	7429-90-5	Aluminum			<del>-</del>		1	
	7440-36-0	Antimony	1.7		N	MS	5	74.
4	7440-38-2	Arsenic	45.6		NE	MS	1 51	- 74
	7440-39-3	Barium	264.		N	MS	J-	f W
	7440-41-7	Beryllium	1.3		<u> </u>	MS	T+	+ *
	7440-43-9	Cadmium	6.0		E	MS	5	K
	7440-70-2	Calcium					-	
	7440-47-3	Chromium	6.2		•••	MS	ĺ	J-A
······································	7440-48-4	Cobalt	15.3		*	MS	1	
	7440-50-8	Copper	424.		*NE	MS	T+	. 1
	7439-89-6	Iron					, s	-E
	7439-92-1	Lead	2030		D*	MS	J	•
	7439-95-4	Magnesium				Ì		
	7439-96-5	Manganese	7960		D	MS		
	7439-97-6	Mercury						
	7440-02-0	Nickel	7.7		E	MS-	<u> </u>	W
	7440-09-7	Potassium				// van in in in in in in in in in in in in in		
	7782-49-2	Selenium	0.66	J		MS	3.6	U
	7440-22-4	Silver	11.8		N	MS	T	-u
	7440-23-5	Sodium					~	
	7440-28-0	Thallium	0.77			MS		
	7440-62-2	Vanadium	27.8			MS	ستر ا	£ المستوفوسية أ 3
	7440-66-6 .	Zinc.	614.		*E	MS	7	2/18/1
. :	57-12-5	Cyanide			-		_	11
								ון צון צ
•								
olor Be	fore: BROWN	Clarit	ty Before:		_ Texture: M	MEDIUM	<u> </u>	
olom n∉∙	⊢ດ∾• <b>መ</b> ሻእ፣	Clanit	After CIDAD		Name i finales	_		
OIOL AI	rer: TWM	CLAIL	y After: CLEAR		Artifacts	•		_
omments								
	•	.1	ated due to the					

EPA SAMPLE NO.

MH35L1	

Lah Name	: ALS Labora	atory Group	Contract: I	EPW0903	6			<b>-</b>
		Case No.: 40755		-		No.: M	H35H7	<del>-</del>
Lab Code	DATAC						1100111	_
Matrix:	Soil		Lab Sample	ID: 10	30770019			-
% Solids	: 58.5		Date Recei	ved: <u>11</u>	/03/2010			_
					_			
Concentr	ation Units	(ug/L, ug or m	ng/kg dry weigh	t): mg/	kg			,
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	11500			P		
	7440-36-0	Antimony						
	7440-38-2	Arsenic						•
	7440-39-3	Barium						
_	7440-41-7	Beryllium			,			
	7440-43-9	Cadmium						
	7440-70-2	Calcium	1280			Р		•
	7440-47-3	Chromium						•
	7440-48-4	Cobalt						
·	7440-50-8	Copper						
	7439-89-6	Iron	27100			P		
	7439-92-1	Lead						
•	7439-95-4	Magnesium	5670			P		
	7439-96-5	Manganese	0010			<del> </del> -	•	
•	7439-97-6	Mercury		<del></del>				
·	7440-02-0	Nickel						
\$ 1	7440-02-0		1210			P	77+	n
	7782-49-2	Selenium	1210		Committee and sure of		7	
	· · · · · · · · · · · · · · · · · · ·							,
	7440-22-4	Silver	44.3	J	E	P	88-	855 07
	7440-23-5	Sodium	44.3	- U.		-		00000
	7440-28-0	Thallium Vanadium						855 UJ 2/18/u
	7440-62-2		· · · · · · · · · · · · · · · · · · ·					
	7440-66-6	Zinc						
	57-12-5	Cyanide						
				<del></del>			-	
Color Bo	fore: BROWN	Clarity	Before:		Texture: N	ŒDIUM.		
COTOL DE	ICIE. DIOMI						······································	- <del></del>
Color Af	ter: YELLOW	Clarity	After: CLEAR		Artifacts	:		
								-
Comments								
E: The	e reported v	value is estima	ted due to the	presen	ce of inter	rferen	ce.	_
	<del></del>							-
		- <b></b>						_
		· · · · · · · · · · · · · · · · · · ·				·		-
	•				•			

EPA SAMPLE NO.

MH35L1

ix:		Case No.: <u>407</u>					
	Soil	-	Lab Sample		<del></del>		<del></del>
lids:	58.5	· · · · · · · · · · · · · · · · · · ·	Date Recei	ved: <u>1</u>	1/03/2010		
entra	tion Units	s (ug/L, ug or	mg/kg dry weigh	t): mg	/kg		
	CAS No.	Analyte	Concentration	С	Q	М	]
	7429-90-5	Aluminum			<del></del>		1 .
	7440-36-0	Antimony	0.71	J	N	MS	1.70
	7440-38-2	Arsenic	49.4		NE	MS	T-1-7 T+ 7
	7440-39-3	Barium	205.		N	MS	3+7
	7440-41-7	Beryllium	1.3		E	MS	丁+ 🏂
	7440-43-9	Cadmium	7.0		E	MS	丁水
	7440-70-2	Calcium					
<u></u>	7440-47-3	Chromium	8.2			MS	مير ا
	7440-48-4	Cobalt	15.8		*	MS	
ļ	7440-50-8	Copper	294.		*NE	MS	J+ 7
; <del>-</del>	7439-89-6	Iron					_ 7
<u> </u>	7439-92-1	Lead	754.		*	MS	3
	7439-95-4	Magnesium			<u>,,,</u>		
	7439-96-5	Manganese	11500		D	MS	[
	7439-97-6	Mercury					- W
- I	7440-02-0	Nickel	7_8			MS_	
· -	7440-09-7	Potassium			<u> </u>		
	7782-49-2	Selenium	0.59	J		MS	4,30
	7440-22-4	Silver	4.0		Ŋ	MS	7
- ⊢	7440-23-5	Sodium					
	7440-28-0	Thallium	0.88	<b></b>		MS	T- The same
	7440-62-2	Vanadium	38.0		212	MS	
<u> </u>	7440~66-6	Zinc	899.		D*E	MS	1
	57-12-5	Cyanide				_	J 7 7 2/18
·  -			<u> </u>			_	
₽			<u>                                     </u>				
.Bef	ore: BROWN	Clari	ty Before:		Texture:	MEDIUM	
Aft	er: TAN	Clari	ty After: CLOUDY	•	Artifacts	s:	·
ents:						_	
The	reported v	zalue is estin	mated due to the	preser	ce of inte	rferen	ce.

### .. 000295

EPA SAMPLE NO.
MH35L2

**	de: <u>DATAC</u> (	Case No.: 407			SDG	No.: M	H35H7	• •
Matrix:	: Soil	· · · · · · · · · · · · · · · · · · ·	Lab Sample	10: 1	.030770020			-
% Solid	is: 83.4		Date Recei	ved: <u>1</u>	1/03/2010			-
Concent	ration Units	(ug/L, ug or	mg/kg dry weigh	it): mg	/kg			
•	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	15700		<u>,</u>	P		
	7440-36-0	Antimony						
	7440-38-2	Arsenic						
	7440-39-3	Barium						
	7440-41-7	Beryllium	<del></del>	<del> </del>				
	7440-43-9 7440-70-2	Cadmium   Calcium	1990	<del></del>	<del></del>	P		
	7440-70-2	Chromium	1990			<del>                                     </del>		
	7440-47-3	Cobalt						
	7440-50-8	Copper				-		
•	7439-89-6	Iron	71200		D	P	. * * .	
	7439-92-1	Lead						
	7439-95-4	Magnesium	11500			P		
• .• .	7439-96-5	Manganese						
٠	7439-97-6	Mercury		<b></b> ].	· 			•
•	7440-02-0	Nickel					T 4	#7
	7440-09-7	Potassium	642.			P	7 '	
	7782-49-2	Selenium		-	<u> </u>			
	7440-22-4	Silver	16.7	<del>                                     </del>		P	100	2/18/
	7440-23-5	Sodium	16.7	J	<u>E</u>	F	600	21.01
-	7440-28-0 7440-62-2	Thallium Vanadium		<del>!</del>				4181
	7440-62-2	Zinc		<del> </del>				
	57-12-5	Cyanide		<del>   </del>			100	
	37 12 3	Oyunzaa	· · · · · · · · · · · · · · · · · · ·					
•	· · · · · · · · · · · · · · · · · · ·	- '						
Color E	Before: BROWN	Clari	ty Before:		Texture: ]	MEDIUM		_
Color A	After: YELLOW	Clari	ty After: CLEAR		_ Artifacts	<u></u>		-
Commont	• • •							
Comment			mated due to the	Dress	nce of inte	rferen	Ce	

EPA SAMPLE NO.
MH35L2

					1	MH35	L2 	
b Name	e: ALS Labora	tory Group	Contract:	EPW090	36			
b Code	: DATAC C	Case No.: 4075	Mod. Ref.	No.: _		SDG No.: 1	ин35н7	
trix:	Soil		Lab Sample	ID:	10307700	20		_
Solids	s: <u>83.4</u>		Date Recei	ved: [	11/03/20	10		
ncentr	ration Units	(ug/L, ug or	mg/kg dry weigh	nt): mg	g/kg			
	CAS No.	Analyte	Concentration	С	Q	М	] .	÷
	7429-90-5	Aluminum					]	H
	7440-36-0	Antimony	0.34	J	N	MS	1.20	)
	7440-38-2	Arsenic	31.5		NE	MS	され	71
	7440-39-3	Barium	94.2		. N	MS	17+	The
	7440-41-7	Beryllium	1.4		Е	MS	1+	
	7440-43-9	Cadmium	10.4		E	MS	1 +	H
	7440-70-2	Calcium				·	1	
	7440-47-3	Chromium	8.0			MS	1	
	7440-48-4	Cobalt	20.5		*	MS	1 7	-74.
	7440-50-8	Copper	1240		D*NE	MS MS	7+	H
	7439-89-6	Iron					7	
	7439-92-1	Lead	1480		D*	MS	1 5	K
	7439-95-4	Magnesium					1 . `	
	7439-96-5	Manganese	6600	<del>                                     </del>	D	MS	1	
	7439-97-6	Mercury					1	
	7440-02-0	Nickel	11.7		E	MS	7	71
	7440-09-7	Potassium						
•	7782-49-2	Selenium	0.59	J		MS	3,0	0 3
	7440-22-4	Silver	1,2		N	MS	1 5	W
	7440-23-5	Sodium					-	
	7440-28-0	Thallium	0.44	J		MS	1 エー	· H
	7440-62-2	Vanadium	40.9			MS	1	R
	7440-66-6	Zinc	1500		D*E	MS	] ]	TR
	57-12-5	Cyanide					1	2/18/
			-		,		1	2/18/
٠							1	
or Be	fore BROWN	Clarit	ty Before:	<u> </u>	Textu	re: COARSE	_	
	ter: BROWN		ty After: CLEAR		<del></del>	acts:		<del></del>
.03. 111	DECEMBER 1		<u> </u>					_
ments								
			ated due to the					

EPA SAMPLE NO.
MH35L3

					<u> </u>	MH 351	J.3	
Lab Name	: ALS Labora	tory Group	Contract:	EPW09	036 .			
Lab Code	: DATAC C	Case No.: 4075	5 Mod. Ref.	No.:	SDG 1	No.: M	н35н7	
Matrix:	Soil	<del></del>	Lab Sample	ID:	1030770021			
% Solids	: 16.8		Date Recei	ved:	11/03/2010			
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): m	g/kg			
	CAS No.	Analyte	Concentration	С	Q .	М		
	7429-90-5	Aluminum	986.			P		
	7440-36-0	Antimony						
	7440-38-2	Arsenic						
	7440-39-3	Barium						
	7440-41-7	Beryllium						i
	7440-43-9	Cadmium						20
	7440-70-2	Calcium	279.	J		P	2980	U'
	7440-47-3	Chromium						_
	7440-48-4	Cobalt						
	7440-50-8	Copper						,
	7439-89-6	Iron	273000	•	D	P	٠,	
•	7439-92-1	Lead						26
	7439-95-4	Magnesium	486.	J		P	2980	0 /
- ·	7439-96-5	Manganese				1	· • · · · · · · · · · · · · · · · · · ·	•
	7439-97-6	Mercury				T		
	7440-02-0	Nickel						M
	7440-09-7	Potassium	773;	J		P	2980	U
	7782-49-2	Selenium					2980 2980	
•	7440-22-4	Silver						TR
	7440-23-5	Sodium	48.1	J	E	P	2980	υŢ
	7440-28-0	Thallium				<u> </u>		alak
	7440-62-2	Vanadium			<del> </del>			2/18/14
	7440-66-6	Zinc					,	
ľ	57-12-5	Cyanide						
				j	·			
Color Bei	fore: BROWN	Clarit	y Before:		Texture: M	EDIUM	· · · · · · · · · · · · · · · · · · ·	
Color Aft	ter: YELLOW	Clarit	y After: CLEAR		Artifacts:			
Comments:	•							
E: The	reported va	alue is estima	ated due to the	pres	ence of inter	feren	ce.	
	·							

EPA	SAMPLE	NO.
	MH35L3	

					<u>L</u>			
Lab Name	: ALS Labora	tory Group	Contract: E	PW09	036			_
		ase No.: 40755			SDG N	o.: M	н35н7	<del></del>
Matrix:				ID:	1030770021			
MOCTIVE								
% Solids	: 16.8		Date Recei	ved:	11/03/2010	<u></u>	<del></del>	_
Concentr	ation Units	(ng/L. ug or :	mg/kg dry weigh	t): m	, .g/kg			
CONCERCE	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum						
	7440-36-0	Antimony	23.3		N	MS	T	R
	7440-38-2	Arsenic	969.		NE	MS	于十	<b>**</b>
	7440-39-3	Barium	37.1		N	MS	J+	NIN
	7440-41-7	Beryllium	0.11	J	E	MS	3.0	01
	7440-43-9	Cadmium	2.8	J	E	MS	3.0	UJZ
	7440-70-2	Calcium						
	7440-47-3	Chromium	11.3			MS		41
	7440-48-4	Cobalt	1.4	J	*	MS	3,0	UM
	7440-50-8	Copper	235.		*NE	MS		
	7439-89-6	Iron					1	r
	7439-92-1	Lead	1100		*	MS	J	7
	7439-95-4	Magnesium						<u>.</u>
	7439-96-5	Manganese	304.		· ·	MS	Ì	_
	7439-97-6	Mercury					·	
<del></del>	7440-02-0	Nickel	1.6	J_	E	_MS_	3.0	U)
	7440-09-7	Potassium				**************************************		UM
the transfer	7782-49-2	Selenium	4.2	J		MS		_
•	7440-22-4	Silver	13.2		N	MS	J	H
	7440-23-5	Sodium						
	7440-28-0	Thallium	0.19	J		MS	1 7 -	KA
	7440-62-2	Vanadium	57.1			MS	] -F	3kol
	7440-66-6	Zinc	524.		*E	MS	] ].	2/18/11
	57-12-5	Cyanide	······································					2/18/11
	3. 22	-2						•
							j	
Color Bo	efore: RED	Clarit	y Before:		Texture: M	EDIUM	I	
	<del></del>				<del></del>	_		<del>-</del>
Color Af	ter: BROWN	Clarit	y After: CLEAR		Artifacts:			
Comments	<b>5:</b>							
E: Th	e reported v	alue is estim	ated due to the	pres	sence of inter	ferer	ice.	_
					<del>-</del>			_
					· · · · · · · · · · · · · · · · · · ·			-

Data Validation Report

#### REGION VIII DATA VALIDATION REPORT INORGANIC

Case/TDD No.	Site N	Vame	Operable Unit
40755 / 1008-16	Upper Animás Mini	ing District	
###RPM/OSC Name			
Sabrina Forrest		·	
Contractor Laboratory	Contract No.	SDG No.	Laboratory DPO/Region
ALS Laboratory Group	EPW05026	MH36L0	·

Review Assigned Date: _	December 15, 2010	Data Validator:	Fred Luck	
Review Completion Date:_	February 18, 2011	Report Reviewer:	Lesley Boyd	

Sample ID	Matrix	Analysis
MH36L0	Sediment	CLPMetals
MH36L1		
MH36L2		
MH36L3		
MH36L4		
MH36L5	Mine Sediment	
MH36L6	Sediment	
MH36L7		
MH36L8		. <u>-</u> .
MH36L9		

### UOS

URS Operating Services, Inc.

Data Validation Report

### DATA QUALITY STATEMENT

() (X)	Data are ACCEPTABLE according to EPA Functional guideling by the reviewer.  Data are UNACCEPTABLE according to EPA Functional Guide Data are acceptable with QUALIFICATIONS noted in review.	
` '	one/Communication Logs Enclosed? Yes	No X
CLP Prattentio	oject Officer Attention Required? Yes NoX n:	If yes, list the items that require

#### INORGANIC DATA VALIDATION REPORT

#### REVIEW NARRATIVE SUMMARY

This data package was reviewed according to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," January 2010.

Raw data were reviewed for completeness and transcription accuracy onto the summary forms. Approximately 10-15% of the results reported in <u>each</u> of the samples, calibrations, and QC analyses were recalculated and verified. If problems were identified during the recalculation of results, a more thorough calculation check was performed.

The data package, Case No. 40755, SDG No. MH36L0, consisted of ten sediment / mine sediment samples for metals by ICP-AES and ICP-MS (ISM01.2). The following table lists the data qualifiers added to the sample analyses. Please see Data Qualifier Definitions, attached to the end of this report.

Sample ID	Elements	Qualifiers	Reason for Qualification	Review Section
MH36L0, MH36L1, MH36L2, MH36L3, MH36L4, MH36L5, MH36L7, MH36L8, MH36L9	·Antimony	U	Blank Contamination	3
MH36L9	Barium	•		
MH36L0, MH36L2, MH36L4, MH36L5, MH36L6, MH36L7, MH36L8, MH36L9	Beryllium			
MH36L0, MH36L5, MH36L8, MH36L9	Cadmium			
MH36L2, MH36L4, MH36L5, MH36L9	Calcium			
MH36L5, MH36L9	Chromium			
MH36L5, MH36L9	Cobalt			
MH36L5	Nickel			
MH36L0, MH36L1, MH36L2, MH36L3, MH36L4, MH36L5, MH36L6, MH36L7, MH36L8, MH36L9	Selenium	·		
MH36L5, MH36L9	Silver			
MH36L1, MH36L3	Beryllium	J+	Potentially false positive	4
All Samples	Potassium	,	detection in ICS check sample	
MH36L0, MH36L1, MH36L2, MH36L3, MH36L4, MH36L6, MH36L7, MH36L8	Silver			
All Samples	Sodium			
	Thallium			

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Sample ID	Elements	Qualifiers	Reason for Qualification	Review Section
All Samples	Selenium, Thallium	J- /UJ	MS 30 - 74%R, Post Digestion Spike %R < 75%	7
	Antimony, Silver	]/UJ	MS <30%R, Post Digestion Spike %R ≥ 75%	
	Arsenic, Lead, Potassium, Sodium, Zinc	J	Serial Dilution %D > 10%	8

2.

Comments:

None.

### Data Validation Report

#### 1.

PRESERVA	TION AND HOLDING TIMES
All technical	holding times and preservation criteria were met.
Yes	No_X
Comments:	The samples were analyzed within 180 days for the ICP metals. According to the Sample Log-In Sheet and case narrative, the two sample coolers were each received at a temperature of 7°C, which is outside the recommended temperature range of $4 \pm 2$ °C. The Sample Log-In Sheet further indicates that neither cooler contained a Cooler Temperature Indicator Bottle, as indicated on the form to be required. There is also no indication that SMO was contacted regarding this issue, neither is any documentation of the resolution or indication of how the cooler temperature was derived provided. The TR/COC also did not designate a sample for laboratory QC, but the documentation of the resolution of this issue is provided in the SDG.
•	When the sample preservation criteria are not met, but the sample analysis and extraction are within the technical holding times then professional judgment is used whether to qualify the data. No action was taken since the preservation exceedence was minimal and the extraction and holding times were well within the established parameters.
· · · · · · · · · · · · · · · · · · ·	The field sampler had used CLP IDs in the incorrect format using the letter 'I' in accordance with the reported previous directions from Region 8, the SMO coordinator assigned new sample IDs to the affected samples and the laboratory was to note this issue in the SDG narrative, which is did. There is no apparent indication that the laboratory had any error involving sample confusion.
	No other shipping or receiving problems were noted. Chain-of-custody, summary forms, and raw data were evaluated.
INSTRUMEN VERIFICATI	T CALIBRATIONS: INITIAL AND CONTINUING CALIBRATION ON (ICV AND CCV)
The initial and SOW requirem	continuing calibration verification standards (ICV and CCV, respectively) met ents.
Yes_X_	No
Comments:	None.
The calibration cyanide, and 80	verification results were within 90-110% recovery for metals, 85-115% for 120% for mercury.
Ves X	No

URS Operating Services, Inc.

		•
	The continuin	g calibration standards were run at 10% frequency or every two hours.
	Yes X	No
	Comments:	None.
3.	BLANKS	
	The initial and requirements.	l continuing calibration blanks (ICB and CCB, respectively) met SOW
	Yes X	No
	Comments:	For the ICP-AES analyses, the ICB was rerun.
	The continuin	g calibration blanks were run at 10% frequency.
	Yes_X_	No
	Comments:	Continuing calibration blanks were run every 10 samples.
<i>-</i>	A laboratory/p delivery group Yes X	reparation blank was run at the frequency of one per twenty samples, or per sample (whichever is more frequent), and for each matrix analyzed.  No
	. Ies	
	Comments:	None.
•	All analyzed b	lanks were free of contamination.
	Yes	No X
	1 es	140 <u>X</u>

Comments: The following table lists the blanks with contamination that resulted in sample qualification, elements present, affected samples, and data qualifiers:

#### **Blank Contaminants**

WAS THE TAX	in the second contract of	a production that the party of	Salan arabi araba araba	(c.e. process, c.e. (c.e. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. p. c. p. c. p. p. c. p. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. c. p. p. c	d trackment amileters a new	Control of the Control of the Control	and the same with the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and
				Concentration	Associated	Concentration	
Blank	Contam-	CRQL	MDL	Found in Blank	Samples	Found in	Qualifier/
100	inant		(mg/Kg)	(mg/Kg)		Sample	Adjustment
PB	Antimony	1	0.0097	0.030	MH36L0	(mg/Kg)	1211
1.0	Aumiony	*	0.0097	0.030		0.53	. 1.3 U
1					MH36L1	0.45	1.3 U
					MH36L2	0.86	1.6 U
<b>[</b>		1			MH36L3	0.45	1.4 U
		1			MH36L4 MH36L5	1.7	2.0 U
		1		<u>'</u>		0.31	3.2 U
			i		MH36L7	0.45	1.3 U
		· ·		ļ ·	MH36L8	0.19	1.3 U
				-	MH36L9	0.44	5.0 U
PB	Barium	5	0.044	5.0	MH36L9	21.4	24.9 U
		<u> </u>					
PB	Beryllium	0.5	0.0032	0.011	MH36L0	0.38	0.63 U
	•	•			MH36L2	0.30	0.80 U
					MH36L4	0.34	1.0 U
					MH36L5	0.79	1.6 U
			!		MH36L6	0.46	0.95 U
·					MH36L7	0.45	0.65 U
					MH36L8	0.53	0.63 U
·		,			MH36L9	1:4	2.5 U
PB	Cadmium	0.5	0.0027	0.50	MH36L0	0.73	0.63 U
		ļ			MH36L5	0.11	1.6 U
				•	MH36L8	0.42	0.63 .U
					MH36L9	1.2	2.5 U
PB	Calcium	-500	1.7	2.587	MH36L2	592	804 U
					MH36L4	851	1030 U
					MH36L5	1540	1580 U
					MH36L9	2310	2490 U
PB	Chromium	1	0.026	1.00	MH36L5	2.6	3.2 U
					MH36L9	2.8	5.0 U
PB	Cobalt	1	0.0053	0.024	MH36L5	1.5	1.6 U
					MH36L9	1.5	2.5 U
PB	Nickel	0.5	0.013	0.500	MH36L5	1.2	1.6 U
PB	Selenium	2.5	0.036	2.500	MH36L0	0.55	3.1 U
					MH36L1	0.32	3.3 U
				ļ	MH36L2	0.86	4.0 U
				·	MH36L3	0.70	3.5 U
	ļ: l				MH36L4	1.2	5.1 U
					MH36L5	0.16	7.9 U
		İ	ŀ		MH36L6	1.4	4.8 U
			ŀ		MH36L7	1.2	3.3 U
					MH36L8	0.61	3.1 U
					MH36L9	12.4	12.4 U
PB	Silver	0.5	0.0023	0.006	MH36L5	0.31	1.6 U
	·				MH36L9	0.71	2.5 U

### UOS

URS Operating Services, Inc.

Yes_X_

No_

Data Validation Report

INDUCTIVELY COUPLED PLASMA - INTERFERENCE CHECK SAMPLE (ICP-ICS						
The ICP inte analysis run	rference che and every 20	eck sample (ICS) was run at the beginning and end of each sample 0 analytical samples, but not prior to the ICV.				
Yes_X_	No	· .				
Comments:	None.					
Percent recorresult was wi	very of the a ithin ± the C	analytes in the ICS solutions were within the range of 80-120% or the CRQL.				
YesNo_	<u>X</u> _					
YesNo Comments:	For Pota exceeded analysis	assium and Sodium, the ICP-AES Interference Check Sample Results d the True Values by approximately 1.8 to 2.0 times the CRQL, this was repeated with similar results. Results for these analytes that are we been qualified as estimated high (J+).				
Comments:	For Pota exceeded analysis MDL ha ts for alumin	d the True Values by approximately 1.8 to 2.0 times the CRQL, this was repeated with similar results. Results for these analytes that are				
Comments:	For Pota exceeded analysis MDL ha ts for alumin	d the True Values by approximately 1.8 to 2.0 times the CRQL, this was repeated with similar results. Results for these analytes that are we been qualified as estimated high (J+).				

The following table lists the elements with potential false positives or false

negatives that resulted in sample qualification, affected samples, and data qualifiers:

#### **ICP Interferences**

	Concentration Found in: ICSA-Sample (ug/L)	Affected Samples	Concentration Foundar Sample (mg/Kg)	Qualifier/————————————————————————————————————
Beryllium	0.39	MH36L1 MH36L3	>MDL	J+
Potassium	1020	All samples		
Silver	0.027	MH36L0 MH36L1 MH36L2 MH36L3 MH36L4 MH36L6 MH36L7 MH36L7		
Sodium	975	All samples		
Thallium	0.049	All samples		

#### 5. LABORATORY CONTROL SAMPLE

The laboratory control sample (LCS) was prepared and analyzed with every twenty or fewer samples of a similar matrix, or one per sample delivery group (whichever is more frequent).

	Yes_X	No
	Comments:	None.
	All results wer	e within control limits OF 70-130%.
	Yes_X_	No
	Comments:	None.
5.	FORM 6 & 12	2 - DUPLICATE SAMPLE ANALYSIS
		ple analysis was performed with every twenty or fewer samples of a similar matrix, ple delivery group (whichever is more frequent).
	Yes_X_	No NA
•	Comments:	None.

Data Validation Report

UOS URS Operating Services, Inc.

7.

The RPDs we	re calculated correctly.
Yes_X_	No NA
Comments:	None.
For sample co	ncentrations greater than five times the CRQL, RPDs were within 20% (limits of soil/sediments/tailings samples).
Yes_X_	No NA
Comments:	None.
For sample co	ncentrations less than five times the CRQL, duplicate analysis results were within adow of CRQL (absolute difference < CRQL for soils).
Yes_X_	No NA
Comments:	None.
SPIKE SAM	PLE ANALYSIS
A matrix spike one per sampl	sample was analyzed with every twenty or fewer samples of a similar matrix, or delivery group (whichever is more frequent).
Yes_X_	No NA
Comments:	None.
The percent re	coveries (%Rs) were calculated correctly.
Yes_X	No NA
Comments: Spike recoveri	None es were within the range of 75-125% (an exception is granted where the sample s four times the spike concentration).
Yes	No_X_
Comments:	The following table lists the spike recoveries outside control limits, post digestion spike recoveries, samples affected, and data qualifiers:

Data Validation Report

Element	Matrix Spike %R	Post-Digestion %R	Samples Affected	Qualifiers
Antimony	20%	85%	All samples	J/UJ
Selenium	55%	67%		J-/UJ
Silver	-11%	86%		1/UJ
Thallium	74%	69%		J-/UJ

A post-digest spike was performed for those elements that did not meet the specified criteria (i.e., Pre-digestion/pre-distillation spike recovery falls outside of control limits and sample result is less than four times the spike amount added, exception: Ag, Hg).

Yes_X_	No	NA
Comments:	None	

### 8. ICP SERIAL DILUTION

A serial dilution was performed for ICP analysis with every twenty or fewer samples of a similar matrix, or one per sample delivery group, whichever is more frequent.

Yes_X	No		 

The serial dilution was without interference problems as defined by the SOW.

Comments: The following serial dilution %Ds were greater than 10% and the original sample result was at least 50* the MDL:

Element	% Difference	Samples Affected	Qualifiers
Arsenic Lead Potassium Sodium Zinc	18% 34% 19% 27% 24%	All samples	J

Data Validation Report

J	KEGIONAI	C QUALITT ASSURANCE (QA) AND QUALITY CONTROL (QC)
	Regional QA	VQC was conducted as initiated by the EPA Region 8.
•	Yes No_	_ NA _ <u>X</u>
	Comments:	The SDG shows no indication of EPA Region 8 initiating any additional QA / QC.
10.	FORM 10 -	INTERELEMENT CORRECTION FACTORS FOR ICP
	Interelement	corrections for ICP were reported.
81	Yes X	No
	Comments:	None.
11.	FORM 12 - 3	PREPARATION LOG
	Information o	on the preparation of samples for analysis was reported on Form 12.
	Yes <u>X</u>	No
	Comments:	None.
12.	FORM 13 - A	NALYSIS RUN LOG
	_A Form 13 wi	th the required information was filled out for each analysis run in the data package.
	Yes_X_	No
	Comments:	None.

## 13. Additional Comments or Problems/Resolutions Not Addressed Above

Page 1 of the Evidence Audit Checklist (EAC) indicates three airbills are associated with this SDG, however documentation is only provided for Airbill Number 3430, which documents the shipment of four packages. The laboratory only documented receipt of two coolers, so it is unclear as to what the other two packages were that were included on the airbill.

## INORGANIC DATA QUALITY ASSURANCE REVIEW

#### Region VIII

### DATA QUALIFIER DEFINITIONS

For the purpose of Data Validation, the following code letters and associated definitions are provided for use by the data validator to summarize the data quality. Use of additional qualifiers should be carefully considered. Definitions for all qualifiers used should be provided with each report.

## GENERAL QUALIFIERS for use with both INORGANIC and ORGANIC DATA

- R Reported value is "rejected." The data are unusable. Resampling or reanalysis may be necessary to verify the presence or absence of the compound.
- The associated numerical value is an estimated quantity and is the approximate concentration of the analyte in the sample.
- J+ The associated numerical value is an estimated quantity but the result may be biased high.
- J- The associated numerical value is an estimated quantity but the result may be biased low.
- U J The reported quantitation limit is estimated because Quality Control criteria were not met. Element or compound may or may not be present in the sample.
- N J Estimated value of a tentatively identified compound. (Identified with a CAS number.)
  ORGANICS analysis only.
- The material was analyzed for, but was not detected above the level of the associated value.
   The associated value is either the sample quantitation limit or the sample detection limit.

Data Validation Report

URS Operating Services, Inc.

## ACRONYMS.

	ACRONIMS
AA	Atomic Absorption
Ag	Silver
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
CRA	CRQL standard required for AA
CRQL	Contract Required Quantitation Limit
CRI	CRQL standard required for ICP
CV	Cold Vapor
EPA	U.S. Environmental Protection Agency
GFAA	Graphite Furnace Atomic Absorption
Hg	Mercury
ICB	Initial Calibration Blank
ICP .	Inductively Coupled Plaşma
ICS	Interference Check Sample
ICSA	Interference Check Sample (Solution A)
ICSAB	Interference Check Sample (Solution AB)
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
LRA	Linear Range Verification Analysis
MDL	Method Detection Limit
PDS	Post Digestion Spike
QC	Quality Control
RPD	Relative Percent Difference
RPM	Regional Project Manager
RSD	Percent Relative Standard Deviation
SA	Spike Added
SAS	Special Analytical Services
SDG	Sample Delivery Group
SOW	Statement of Work
SR	Sample Result
SSR	Spiked Sample Result

EPA	SAMPLE	NO.
	MH36L0	

			•		мнз6	F0
Lab Name	: ALS Labora	atory Group	Contract:	EPW09036		
Lab Code	: DATAC (	Case No.: <u>4075</u>	Mod. Ref.	No.:	SDG No.: 1	MH36L0
Matrix:	Soil		Lab Sample	ID: <u>1030771</u>	001	<del></del>
% Solids	: 79.4		Date Recei	wed: <u>11/03/2</u>	010	<del></del>
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	it):mg/kg		
	CAS No.	Analyte	Concentration	С О	. м	
	7429-90-5	Aluminum	8100		P	
	7440-36-0	Antimony				1
	7440-38-2	Arsenic				1
	7440-39-3	Barium				1
	7440-41-7	Beryllium		-		
	7440-43-9	Cadmium	······			1 .
	7440-70-2	Calcium	1740		P	1
	7440-47-3	Chromium				1
	7440-48-4	Cobalt		· · ·		1
	7440-50-8	Copper				
-	7439-89-6	Iron	38100		Р	
•	7439-92-1	Lead				1
	7439-95-4	Magnesium	5830		P	-
	7439-96-5	Manganese	3636	<u> </u>		1
	7439-97-6	Mercury				
	7440-02-0	Nickel				
· · · · · · · · · · · · · · · · · · ·	7440-09-7	Potassium	440.			J+ 70 J+ 70 2/18/11
	7782-49-2	Selenium	440.			
	7440-22-4	Silver				
	7440-22-4	· · · · · · · · · · · · · · · · · · ·	20.0	J E	P	T+ TH
	7440-23-3	Sodium Thallium	30.8	J E	F	4 '   /
	7440-28-0	Vanadium				2/18/1
						1,70
	7440-66-6	Zinc				
	57-12-5	Cyanide				
L						
Color Bei	Fore: BROWN	Clarit	y Before:	Textu	re: COARSE	
Color Aft	er: YELLOW	Clarit	y After: CLEAR	Artif	acts:	·
Comments:	•					
-		alue is estima	ated due to the	presence of	interferen	ce.
-						

EPA	SAMPLE	NO.
	мн36го	

						мнзе	2F0
Lab Nam	e: ALS Labor	ratory Group	Contract:	EPW09	036		
Lab Code	e: <u>DATAC</u>	Case No.: 407	55 Mod. Ref.	No.:	SDG	No.:	MH36T0
Matrix:	Soil		Lab Sample	ID:	1030771001		
% Solids	s: <u>79.4</u>		Date Recei	.ved:	11/03/2010	···	· · · · · · · · · · · · · · · · · · ·
Concenti	ration Units	s (ug/L, ug or	mg/kg dry weigh	nt): m	g/kg		
	CAS No.	Analyte	Concentration	c	Q	М	
	7429-90-5	Aluminum		<del>                                     </del>	~	1.1	<u>.</u>
•	7440-36-0	Antimony	0.53	J	37	1	1211
	7440-38-2	Arsenic	17.7	-	N	MS	1.30 J
	7440-39-3	Barium	121.		<u>E</u>	MS	1 market
•	7440-41-7	Beryllium	0.38	J	E	MS	400
	7440-43-9	Cadmium	0.48	J		MS	0.630 7
	7440-70-2	Calcium	0.10			MS	0.630
	7440-47-3	Chromium	6.9	<del>  -</del>		MS	14 ₀ A
	7440-48-4	Cobalt	13.2		*	MS	3/10/1
	7440-50-8	Copper	63.6	-		MS	الله المسلف
	7439-89-6	Iron				1 1/40	
	7439-92-1	Lead	379.		Е	MS	T 2
	7439-95-4	Magnesium	373.			123	1
	7439-96-5	Manganese	1420		D	MS	i
	7439-97-6	Mercury					and the second
	7440-02-0	. Nickel	6.3			MS_	
	7440-09-7	Potassium					
	7782-49-2	Selenium	0.55	J	N	MS	3,1 UJ A J+ A
	7440-22-4	Silver	1.3		N	MS	
	7440-23-5	Sodium				1113	
	7440-28-0	Thallium	0.30	J	N	MS	J+ # J & 2/18/4
	7440-62-2	Vanadium	46.3			MS	4 "
l	7440-66-6	Zinc	184.		E	MS	TE
	57-12-5	Cyanide				+	1 de
						1	2/18/4
ļ						╂╌╼┥	
Color Bei	fore: BROWN	Clarit	y Before:	L	Torturo. M	עמולרושו	
Color Aft	er: COLORLE	SS Clarit	y After: CLEAR	<del></del>	_ Artifacts:		
Comments:	:						
E: The	reported v	alue is estima	ated due to the	presei	nce of inter	ferenc	ie.
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EPA SAMPLE NO.

	•				МНЗб	P.T.
ab Name	: ALS Labora	atory Group	Contract:	EPW09036		
ab Code	e: DATAC C	Case No.: <u>4075</u>	5 Mod. Ref.	No.:	_ SDG No.: 1	4H36L0
Matrix:	Soil		Lab Sample	ID: 1030771	1002	
Solids	s: <u>74.7</u>		Date Recei	ved: <u>11/03/</u> 2	2010	
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): mg/kg		
	CAS No.	Analyte	Concentration	С	Q M	
	7429-90-5	Aluminum	13100		P	-
	7440-36-0	Antimony				
	7440-38-2	Arsenic				1
	7440-39-3	Barium			<del></del>	1
	7440-41-7	Beryllium	·			-
	7440-43-9	Cadmium		<u>-</u>		
	7440-70-2	Calcium	2020			
	7440-47-3	Chromium	2020			·
	7440-48-4	Cobalt				
	7440-50-8	Copper				
	7439-89-6	Iron	35000		P	
	7439-83-6	Lead	33000		F	
	7439-92-1	Magnesium	0.070			
	7439-95-4		8970		P	
	7439-96-5	Manganese				·
		Mercury				
	7440-02-0	Nickel				-1 21
	7440-09-7	Potassium	501.		iP	J+ 71 J+ 71 2/18/
	7782-49-2	Selenium		· ·		· · · · · · · · · · · · · · · · · · ·
	7440-22-4	Silver				T. 71
	7440-23-5	Sodium	21.9	J E	P	1 7 °
	7440-28-0	Thallium				2/18/
	7440-62-2	Vanadium				
	7440-66-6	Zinc				
	57-12-5	Cyanide				
Ţ						
olor Bei	fore: BROWN	Clarity	y Before:	Text	ure: COARSE	
			y After: CLEAR			
			, , , , , , , , , , , , , , , , , , ,			······································
omments:	:		•			
E: The	reported va	alue is estima	ted due to the	presence of	interferen	ce.
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EPA SAMPLE NO.

					<u></u>	MH36	<u> </u>	
Lab Nam	e: ALS Labor	atory Group	Contract:	EPW09	036	,		****
Lab Cod	e: DATAC (	Case No.: 4075	Mod. Ref.	No.:	SDG	No.: 1	MH36L0	
Matrix:	Soil		Lab Sample	D:	1030771002			
% Solid	s: 74.7		Date Recei	.ved:	11/03/2010			
Connect	makin Thit	tor or IT					· -	<del></del>
Joneent.	ration units	(ug/L, ug or	mg/kg dry weigh	it): m	g/kg ′		•	•
	CAS No.	Analyte	Concentration	C	Q	М		
	7429-90-5	Aluminum				<del></del>	1	1
	7440-36-0	Antimony	0.45	J	N	MS	1.3	$v T \stackrel{\wedge}{\sim}$
	7440-38-2	Arsenic	28.1		E	MS	1	TUA
	7440-39-3	Barium	90.8		*	MS	J-	UJA
	7440-41-7	Beryllium	0.73		E	MS	T+	W
	7440-43-9	Cadmium	2.0			MS	"	74.
	7440-70-2	Calcium					١,	
	7440-47-3	Chromium	9.0			MS	1	Val
	7440-48-4	Cobalt	11.2		*	MS	I	
	7440-50-8	Copper	193.			MS		
	7439-89-6	Iron						
	7439-92-1	Lead	543.		E	MS	I	Tr
	7439-95-4	Magnesium		i			7	
	7439-96-5	Manganese	3650		D	MS		
	7439-97-6	Mercury				1.20		
	7440-02-0	Nickel	5.2			MS		
	7440-09-7	Potassium						
	7782-49-2	Selenium	0.32	J	N	MS	821	UT 7
	7440-22-4	Silver	1.7		N	MS	7.0	リゴル
	7440-23-5	Sodium				+	ં ના '	, ,
	7440-28-0	Thallium	0.40	J	N	MS	J+	u
	7440-62-2	Vanadium	32.2			MS	7,	_
	7440-66-6	Zinc	332.		E	MS	丁	K
	57-12-5	Cyanide				- HO	~	1 al
		773333				<del>-  </del>		Syraln
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olor Be	fore: BROWN	Clarit	y Before:		Texture: M	EDTIM		
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olor Af	ter: BROWN	Clarity	y After: CLEAR		_ Artifacts:			
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omments		_						
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EPA SAMPLE NO.
MH36L2

						MH36	,L2
Lab Nam	ne: ALS Labo	ratory Group	Contract:	EPW09	9036		
Lab Cod	le: DATAC	Case No.: 407	55 Mod. Ref.	No.:	SDG	No.: 1	MH36L0
Matrix:	Soil				1030771003	_	
% Solid	s: 62.2				11/03/2010		
		<u>-</u>					
Concent	ration Unit	s (ug/L, ug or	mg/kg dry weigh	1t): m	g/kg		
	CAS No.	Analyte	Concentration	С	Q	М	]
	7429-90-5	Aluminum	5960			P	†
	7440-36-0	Antimony				1	1 ,
	7440-38-2	Arsenic				-	1
•	7440-39-3	Barium				<del> </del>	
	7440-41-7	Beryllium					1 :
	7440-43-9	Cadmium					ر ا
	7440-70-2	Calcium	592.	J	·	P	804 U M
	7440-47-3	Chromium					
	7440-48-4	Cobalt					
	7440-50-8	Copper				1	
	7439-89-6	Iron	116000		D	P	
	7439-92-1	Lead					
	7439-95-4	Magnesium	3260	-		P	
	7439-96-5	Manganese					· I
	7439-97-6	Mercury					
<u>,                                      </u>	7440-02-0	Nickel					
	7440-09-7	Potassium	842.		E	P	T+ #
	7782-49-2	Selenium					
	7440-22-4	Silver					
	7440-23-5	Sodium	65.3	J	E	P	T+ M
	7440-28-0	Thallium					J+ M 2/18/11
	7440-62-2	Vanadium			·		2/18/K
	7440-66-6	Zinc					, , , ,
	5 <b>7-</b> 12-5	Cyanide					
	•						
Color Be	fore: BROWN	Clarity	Before:		Morrison - M		
			Deloie.		_ Texture: ME	DIUM	
Color Aft	ter: YELLOW	Clarity	After: CLEAR		_ Artifacts:		
Comments:	:						<del></del> .
	=	alue is estima	ted due to the p	prese	nce of interf	erenc	e.
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ļ	EPA	SAMPLE	NO.		
		MU367.2			

						мн361	L2	
Lab Name	: ALS Labora	tory Group	Contract:	EPW09	036	1.8		
Lab Code	: DATAC (	Case No.: 40755	Mod. Ref.	Ref. No.: SDG No.: MH36L0				
Matrix:	Matrix: Soil			ID:	1030771003			<del></del>
% Solids	: 62.2		Date Recei	ved:	11/03/2010			·
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	t): m	g/kg			
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum						
	7440-36-0	Antimony	0.86	J	N	MS	1.6	UT THE
	7440-38-2	Arsenic	62.5		Е	MS	I	TOOL
	7440-39-3	Barium	121.		*	MS		77 32110
	7440-41-7	Beryllium	0.30	J	E	MS	0.80	1 11
	7440-43-9	Cadmium	1.4			MS		•
	7440-70-2	Calcium						
	7440-47-3	Chromium	8.5			MS		- 12A
•	7440-48-4	Cobalt	5.4		*	MS	<u></u>	- # 3 Nol 8
	7440-50-8	Copper	177.			MS		
	7439-89-6	Iron						i
	7439-92-1	Lead	546.		E	MS	1	H
	7439-95-4	Magnesium					7	
	7439-96-5	Manganese	1130		D	MS		
	7439-97-6	Mercury					÷	
	7440-02-0	Nickel	4.5	-	· · · · · · · · · · · · · · · · · · ·	MS		
	7440-09-7	Potassium						
	7782-49-2	Selenium	0.86	J	N	MS	4.0	UJA
	7440-22-4	Silver	5.1		N	MS	T+	N
	7440-23-5	Sodium					7.	
·	7440-28-0	Thallium	0.30	J	N	MS	$\tau_{+}$	M
·	7440-62-2	Vanadium	42.6			MS	<b>.</b>	
	7440-66-6	Zinc	444.		E	MS	T	m
	57-12-5	Cyanide					~	M M 8/18/u
						<del>                                     </del>		Major
ı		<u> </u>						-
Color Bei	Fore: BROWN	Clarity	Before:		Texture: ME	DIUM		
	er: BROWN		After: CLEAR		<pre>Artifacts:</pre>			_
			<u> </u>		_ '111111111111111111111111111111111111			_
Comments:						_		
E: The	reported v	elue is estima	ted due to the	prese	ence of inter	erend	ce.	
								_

EPA SAMPLE NO.

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MH3	6L3	

						L	MU201		_i
Lab Name	e: ALS Labora	tory Group	Contract:	EPW09	9036				_
Lab Code	e: DATAC C	Case No.: 4075	5 Mod. Ref.	No.:		SDG N	lo : M	H36L0	
Matrix:	Soil		Lab Sample	ID:	10307710	004			_
% Solids	: 70.9	•	Date Recei	ved:	11/03/20	010			<del></del>
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	it): n	ng/kg				
	CAS No.	Analyte	Concentration	С	0		м		
	7429-90-5	Aluminum			*		P		
		<del></del>	12200		ļ		P		
	7440-36-0	Antimony		<u> </u>	<del>                                     </del>		ļ		
	7440-38-2	Arsenic		<u> </u>	ļ		<u> </u>		
	7440-39-3	Barium			ļ				
•	7440-41-7	Beryllium		ļ	<u> </u>				
	7440-43-9	Cadmium	····	<u> </u>	ļ			·	٠
	7440-70-2	Calcium	1110	ļ	ļ		P		•
	7440-47-3	Chromium							
	7440-48-4 .	Cobalt		ļ	ļ				
	7440-50-8	Copper							
	7439-89-6	Iron	31900		ļ		P		
•	7439-92-1	Lead							
	7439-95-4	Magnesium	5340				P		
	7439-96-5	Manganese							
	7439-97-6	Mercury							
	7440-02-0	Nickel							7/
	7440-09-7	Potassium	648.		E		₽	J+ J+	M
	7782-49-2	Selenium	······································						
	7440-22-4	Silver	-						11
	7440-23-5	Sodium	29.5	J	E		P	J+	/2
	7440-28-0	Thallium			· -			. *	aliali
	7440-62-2	Vanadium							Mich
	7440-66-6	Zinc			·				
	57-12-5	Cyanide							
	3, 12 3	l Gyunia			<del> </del>				
					<del> </del>	<del></del>			
1					I		<u> </u>		
Color Be:	fore: BROWN	Clarit	y Before:		Textu	re: ME	DIUM		_
Color Aft	ter: YELLOW	Clarit	y After: CLEAR		Artif	acts:	<del> </del>		
Comments	•								
		alue is estima	ated due to the	pres	ence of	inter	feren	ce.	_
		·							
									•

EPA	SAMPLE	NO.
	MURGER	

			÷			MH36L	3	
Lab Name	: ALS Labora	tory Group	Contract:	EPW09	036			
Lab Code	: DATAC C	ase No.: 4075	Mod. Ref.	No.: SDG No.: MH36L0				
Matrix:	Soil		Lab Sample	ID:	1030771004	1		_
% Solids	: 70.9		Date Recei	ved:	11/03/2010	)		<u> </u>
_					45			
Concentra	ation Units	(ug/L, ug or	mg/kg dry weigh	t):m	g/kg	<del></del> 1		
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	, , , , , , , , , , , , , , , , , , ,		<del></del>			-zu
•	7440-36-0	Antimony	0.45	J	N	MS	1.4	J H KA
	7440-38-2	Arsenic	36.8		Е	MS	I	H.VA.
•	7440-39-3	Barium	147.		*	MS	4	3/10/19
	7440-41-7	Beryllium	1.4		E	MS	7+	N
•	7440-43-9	Cadmium	7.4			MS	•	
	7440-70-2	Calcium						
	7440-47-3	Chromium	9.6	i i		MS		- Markath
	7440-48-4	Cobalt	12.9		*	MS	7	3/10/11
	7440-50-8	Copper	546,	·		MS		
and the second	7439-89-6	Iron						
1.0	7439-92-1	Lead	779.		DE	MS	I	$\mathcal{H}$
· ·	7439-95-4	Magnesium	7,7,					
	7439-96-5	Manganese	5130		D	MS		
	7439-97-6	Mercury	7130			130		
:	7440-02-0	Nickel	6.9			MS		
	7440-02-0	Potassium	0.9			145	•	
	7782-49-2	<del></del>	0.70	~		MS	25	1) T
		Selenium		J	М		3,3	W
	7440-22-4	Silver	2.8		N	MS	7 +	
· ·	7440-23-5	Sodium	5 45				L	74
	7440-28-0	Thallium	0.40	J	N	MS	1	
-	7440-62-2	Vanadium	33,2			MS		N H N N N18/4
1	7440-66-6	Zinc	1990		DE	MS	7	-1-1
į.	57-12-5	Cyanide						741814
<u> </u>				· ·				
. L								•
Color Bef	ore: BROWN	Clarity	Before:		Texture	: MEDIUM		_
Color Aft	er: BROWN		After: CLEAR					
<b>a.</b>			•					
Comments:	· ·							
E: The	reported va	alue is estima	ted due to the	pres	ence of in	terferenc	e.	<del></del>

EPA SAMPLE NO.

 		_	 -	
MH	361	,4		

trix:	Soil		Lab Sample		SDG	•	
	-						
зотта	ls: <u>48.8</u>		Date Recei	vea:	11/03/2010		<del> </del>
ncent	ration Units	ug/L, ug or	mg/kg dry weigh	it): mg	g/kg		
	CAS No.	Analyte	Concentration	С	Q	М	]
	7429-90-5	Aluminum	8140			ъ	
	7440-36-0	Antimony					1
	7440-38-2 .	Arsenic					]
	7440-39-3	Barium					
	7440-41-7	Beryllium					]
	7440-43-9	Cadmium					
	7440-70-2	Calcium	851.	J		P	10350
	7440-47-3	Chromium			·		
	7440-48-4	Cobalt				_	-
	7440-50-8	Copper	1,71000			<del></del>	
	7439-89-6 7439-92-1	Iron Lead	154000		D	P	1
	7439-92-1	Magnesium	4670			-	-
٠	7439-95-4	Manganese	4670			P	-
	7439-97-6	Mercury		<del></del>		+	
	7440-02-0	Nickel		<del></del>	· · · · · · · · · · · · · · · · · · ·		
	7440-09-7	Potassium	1120		E	P	++ 7
	7782-49-2	Selenium				<del>  -</del>	
	7440-22-4	Silver				<b></b>	
	7440-23-5	Sodium	98.1	J	E	P	J+ 7
	7440-28-0	Thallium					2/18
	7440-62-2	Vanadium					7/18
	7440-66-6	Zinc					ļ ·
	57-12-5	Cyanide					]
							]
		,					
or Be	efore: BROWN	Clarit	y Before:		Texture: M	EDIUM	
or Af	ter YELLOW		y After: CLEAR		 Artifacts:		
	10000		J ILLOCE. OBERT		_ 111 C114 CC3.		
nents	<b>;</b>						
: The	e reported v	alue is estim	ated due to the	prese	nce of inter	feren	ce.

EPA	SAMPLE	NO.
	MH36L4	

			4		·	мнзе	5L4
Lab Name	a: ALS Labora	atory Group	Contract:	EPWO9	9036	:	
Lab Code	e: DATAC (	Case No.: 4075	Mod. Ref.	No.:	SDG	No.: 1	MH36L0
Matrix:	Soil		Lab Sample	ID:	1030771005		
% Solids	48.8		Date Recei	ved:	11/03/2010		
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	nt):π	ıg/k <del>g</del>		
	CAS No.	Analyte	Concentration	С	Q	М	1
	7429-90-5	Aluminum					
	7440-36-0	Antimony	1.7	J	N	MS	2.0 UJ 7K
	7440-38-2	Arsenic	86.3		E	MS	7 7
	7440-39-3	Barium	168.		*	MS	1 7/- 10 luly
	7440-41-7	Beryllium	0.34	J	E	MS	1.00%
:	7440-43-9	Cadmium	1,2		<del>-</del>	MS	1.00
	7440-70-2	Calcium				1	1
	7440-47-3	Chromium	9.8			MS	
	7440-48-4	Cobalt	6.1		*	MS	T The told
	7440-50-8	Copper	251.			MS	31011
	7439-89-6	Iron				142	
	7439-92-1	Lead	656.		E	W5	- <i>1</i>
	7439-95-4	Magnesium	000.		E	MS	1 ,
	7439-96-5	Manganese	1400			110	-
	7439-97-6	Mercury	1400		D	MS	
	7440-02-0	Nickel	4.8				
-	7440-09-7	Potassium	4.8		· · · · · · · · · · · · · · · · · · ·	MS	
	7782-49-2	Selenium					5.1 UJ K
. 1-	·		1.2	J	N	MS	5.105
l-	7440-22-4	Silver	7.5	1	N	MS	J+ 79
	7440-23-5	Sodium					مد ا
H H	7440-28-0	Thallium	0.31	J	N	MS	J+ K
	7440-62-2	Vanadium	44.3			MS	* *
	7440-66-6	Zinc	464.		E	MS	J H
ļ	57-12-5	Cyanide	<u> </u>				2/18/4
-							b-loot-i
L							•
Color Bef	ore: BROWN	Clarity	y Before:		Texture: ME	DIUM	
	er: BROWN		After: CLEAR				-
Comments:							
	reported va	lue is estima	ted due to the p	prese	nce of interf	erenc	:e
							<del></del>
<del></del>			<del></del>				
			· - <del>-</del>				

EPA	SAMPLE	NO.
	мнз615	

	de: DATAC (	case No.: <u>407</u>	Mod. Ref.	No.:	SDG	No.:	мн36L0
Matrix	: Soil	<del></del>	Lab Sample	: ID:	1030771008		
% Solid	ds: <u>31.6</u>		Date Recei	ved:	11/03/2010		
Concent	tration Units	(ug/L, ug or	mg/kg dry weigh	n <b>t):</b> 1	ng/kg		
	CAS No.	Analyte	Concentration	С	Q	М	· .
	7429-90-5	Aluminum	5480			P	
	7440-36-0	Antimony		i -			1
	7440-38-2	Arsenic					1 .
	7440-39-3	Barium					1
	7440-41-7	Beryllium				<u> </u>	1
	7440-43-9	Cadmium					1
	7440-70-2	Calcium	1540			P	1580 U PA
·	7440-47-3	Chromium		· · ·			/505 0
	7440-48-4	Cobalt				<del></del>	1
	7440-50-8	Copper					
	7439-89-6	Iron	359000		D	P	
	7439-92-1	Lead				<del>                                     </del>	
	7439-95-4	Magnesium	644.	J		P	
	7439-96-5	Manganese					
	7439-97-6	Mercury		<u></u>		<del> </del>	
	7440-02-0	Nickel					N
	7440-09-7	Potassium	146.		<u> </u>		THE
	7782-49-2	Selenium			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del> </del> -	
•	7440-22-4	Silver				<del> </del>	
	7440-23-5	Sodium	31.2	J	E	P	J+ 76 2/18/11
	7440-28-0	Thallium				<del> </del>	3
	7440-62-2	Vanadium					2/18/11
	7440-66-6	Zinc				<del>-</del>	•
	57-12-5	Cyanide				- · · · ·	
							:
		<del>1,</del>					
olor B	efore: ORANGE	Clarit	y Before:		Texture: M	EDIUM	· · · · · · · · · · · · · · · · · · ·
olor A	fter: YELLOW	Clarit	y After: CLEAR		Artifacts:		
omments							•
E: Th	e reported va	alue is estim	ated due to the	pres	ence of inter	feren	ce

EPA	SAMPLE	NO.

			MH36L5
Lab Name:	ALS Laboratory Group	Contract: EPW09036	
Lab Code:	<u>DATAC</u> Case No.: 40755	Mod. Ref. No.:	SDG No.: MH36L0
Matrix:	Soil	Lab Sample ID: 1030771	008

Date Received: 11/03/2010

Concentration Units (ug/L, ug or mg/kg dry weight): mg/kg

% Solids: 31.6

CAS No.	Analyte	Concentration	С	Q	М	
7429-90-5	Aluminum					2 - 7
7440-36-0	Antimony	0.31	J	N	MS	13,203
7440-38-2	Arsenic	19.1		E	MS	T 76A
7440-39-3	Barium	17.4		*	MS	- J 3/10/11
7440-41-7	Beryllium	0.79	J	E	MS	1.60 A
7440-43-9	Cadmium	0.23	J		MS	160 %
7440-70-2	Calcium			•		
7440-47-3	Chromium	2.6	J		MS	3.20 1
7440-48-4	Cobalt	1.5	J	*	MS	1.605 #
7440-50-8	Copper	20.2		`	MS	
7439-89-6	Iron					1
7439-92-1	Lead	115.		E	MS	Ju
7439-95-4	Magnesium					] ~
7439-96-5	Manganese	280.			MS	] ' '
7439-97-6	Mercury		·			1
7440-02-0	Nickel	1.2	J		MS	1.60 H
7440-09-7	Potassium			frincial results and the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same in the same		
7782-49-2	Selenium	0.16	J	N	MS	7.905 R 1.605 R
7440-22-4	Silver	0,31	J	N	MS	1.6 UT A
7440-23-5	Sodium					<i></i>
7440-28-0	Thallium	1.6	U	N	MS	J+ 2
7440-62-2	Vanadium	45.9		· · · · ·	MS	- 7h
7440-66-6	Zinc	282.		E	MS	
57-12-5	Cyanide					2/18/11

Color	Before: ORANGE	Clarity Before:	<u> </u>	Texture: FINE
Color	After: COLORLESS	Clarity After:	CLEAR	Artifacts:
Commer E:	nts: The reported value is	s estimated due t	to the presenc	ce of interference.
			·	

 EPA	SAMPLE	NO.
	MH36L6	

atrix:		Lase NO.: 40/3	5 Mod. Ref.  Lab Sample	_	L030771009		1120110
Solids		1000000	Date Recei	•			
				_			
Concentra	ation Units	(ug/L, ug or	mg/kg dry weigh	nt): mg	J/kg		
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	7030	i			-
	7440-36-0	Antimony					·· · · · ·
	7440-38-2	Arsenic				1	•
	7440-39-3	Barium	.,,,,,,				
	7440-41-7	Beryllium					*
ļ	7440-43-9	Cadmium					
	7440-70-2	Calcium	1420			P	
•	7440-47-3	Chromium	:		-		
·	7440-48-4	Cobalt					'
	7440-50-8	Copper					
	7439-89-6	Iron	114000		D	P	
·	7439-92-1	Lead					
	7439-95-4	Magnesium	3810			P	
-	7439-96-5	Manganese					
	7439-97-6	Mercury		. [			100
Ī	7440-02-0	Nickel					TA
	7440-09-7	Potassium	1560		<u>E</u>	P	<b>-</b> J+
	7782-49-2	Selenium					
[	7440-22-4	Silver					K
Ĭ	7440-23-5	Sodium	118.	J	E	P	ゴナ
T I	7440-28-0	Thallium					J+ K 2/18
	7440-62-2	Vanadium					,,,,,,
-		Zinc					
	7440-66-6	diffe					
	7440-66-6 57-12-5	Cyanide	_				
		<u> </u>			,		-

EPA	SAMPLE	NO.
	MH361.6	

					L			
Lab Nam	ne: ALS Labor	atory Group	Contract:	EPWO:	9036 .			
Lab Cod	de: DATAC	Case No.: <u>407</u>	55 Mod. Ref.	No.:	SDG	No.: I	мн36 <b>г</b> 0	
Matrix:					1030771009			
% Solid	ls: 52.6		Date Recei	ved.	11/03/2010			
			Data Reces	vou.	11/03/2010			<del></del>
Concent	ration Units	ug/L, ug o	mg/kg dry weigh	ıt): n	ng/kg			
	CAS No.	Analyte	Concentration	С	Q	М	]	
	7429-90-5	Aluminum					1	
	7440-36-0	Antimony	2.8		N	MS	1 5	Pl
	7440-38-2	Arsenic	50.2		E	MS	17	Z PA
	7440-39-3	Barium	146.		*	MS	I	-1/2 ·31mi
	7440-41-7	Beryllium	0.46	J	E	MS	0.95	50 R
	7440-43-9	Cadmium	2.9			MS	1	
	7440-70-2	Calcium					ŀ	HA Blow
	7440-47-3	Chromium	8.4			MS		Zholu
	7440-48-4	Cobalt	3.9		*	MS	3	<i>//</i>
	7440-50-8	Copper	279.			MS		
	7439-89-6 7439-92-1	Iron	5730			ļ		The second
	7439-92-1	Lead	5720		DE	MS	1	
	7439-95-4	Magnesium Manganese	1240					
4 41	7439-97-6	Mercury	1340		D	MS		• •
	7440-02-0	Nickel	3.8			170		
	7440-09-7	Potassium	2.0			MS	***************************************	***************************************
•	7782-49-2	Selenium	1.4	J	. N	MS	110	UIN
	7440-22-4	Silver	12,1		N N	MS	7.0	01
	7440-23-5	Sodium				HO		
	7440-28-0	Thallium	0.60	J	N	MS	T+	K
	7440-62-2	Vanadium	47.7			MS	٦.	K K 2/18/11
	7440-66-6	Zinc	815.		E	MS	τ-	H
	57 <b>-12-</b> 5	Cyanide				<del> </del> -	, J	2/8/11
								Mich
Color Be	fore: ORANGE	Clarit	y Before:		Texture: F	INE	٠	
Color Af	ter: WHITE	Clarit	y After: CLOUDY		Artifacts:			<del>-</del>
Comments	•	•						
		alue is estim	ated due to the		man of into	 		
		- 40 TO COLIN	acca and to the	Prese	since of inter	recend	ж.	_
		•						-
<u></u>	<u> </u>							

EPA	SAMPLE	NO.
	мн36ь7	

					· [	мнз	6L7
Lab Name	e: ALS Labor	atory Group	Contract:	EPW090.	36		
Lab Code	e: DATAC	Case No.: 4075	Mod. Ref.	No.:		SDG No.:	MH36L0
Matrix:	Soil		Lab Sample	ID: 1	03077101	0	
% Solids	s: <u>76.8</u>		Date Recei	ved: 1	1/03/201	0	
Concenti	ration Units	s (ug/L, ug or	mg/kg dry weigh	ıt): mg,	/kg		
	CAS No.	Analyte	Concentration	С	Q	М	7
	7429-90-5	Aluminum	9570			P	
	7440-36-0	Antimony				<del></del>	7
	7440-38-2	Arsenic					7
•	7440-39-3	Barium					1
	7440-41-7	Beryllium					-
	7440-43-9	Cadmium					-
	7440-70-2	Calcium	1530			P	-
	7440-47-3	Chromium					┪ .
	7440-48-4	Cobalt					┪
	7440-50-8	Copper					
	7439-89-6	Iron	57600			P	-
	7439-92-1	Lead				<del>_</del>	<del>-</del>
	7439-95-4	Magnesium	6070			P	┥
	7439-96-5	Manganese					<b>-</b>  .
****	7439-97-6	Mercury					╡
	7440-02-0	Nickel					┪
	7440-09-7	Potassium	751.		E		+ - 1 TH
,	7782-49-2	Selenium				<del>-  </del> -	1 ~ 7
	7440-22-4	Silver					J+ 74 J+ 74 2/18/14
	7440-23-5	Sodium	62.3	J	E	P	T+ /
	7440-28-0	Thallium				<del>-   -</del>	101
	7440-62-2	Vanadium			······································		-  2/18/W
	7440-66-6	Zinc		<u> </u>	<del></del>		-
ļ	57-12-5	Cyanide				<del>-</del>	-
i		-1					4
ļ		-			· · · · · ·		-
ı		<u> </u>	<u> </u>				_
olor Bei	fore: ORANGE	Clarity	y Before:		Texture	· COARSE	
olor Aft	ter: YELLOW	Clarity	After: CLEAR		Artifac	ts:	
omments:		·	<del></del>				
E: The	reported v	alue is estima	ted due to the	presend	ce of in	terferen	ce.
							<del></del>
			·····	*			
							· · · · · · · · · · · · · · · · · · ·

 EPA	SAMPLE	NO.	
	MH36L7		

					<u> </u>	мнзе	5L7		
Lab Name	: ALS Labora	atory Group	Contract:	EPW09	9036			<del></del>	
Lab Code	e: DATAC C	Case No.: 4075	Mod. Ref.	No.:	SDG	No.:	MH36L0	<u> </u>	
Matrix:	Soil		Lab Sample	ID:	1030771010				
% Solids	s: <u>76.8</u>		Date Recei	ved:	11/03/2010		:		
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	ıt): m	ıg/kg				
	CAS No.	Analyte	Concentration	С	Q	М	1		
	7429-90-5	Aluminum				<u> </u>	1		
	7440-36-0	Antimony	0.45	J	N	MS	11.36	JT 7	,
	7440-38-2	Arsenic	20.3		E	MS	17	N	. Δ.
	7440-39-3	Barium	97.3		*	MS	13-		الم الم
	7440-41-7	Beryllium	0.45	J	E	MS	0.65	) する 	•
	7440-43-9	Cadmium	0.90			MS	10.00	, -	
	7440-70-2	Calcium				1	1		
	7440-47-3	Chromium	7.0			MS	1 .	1	الميار الميار
i	7440-48-4	Cobalt	11.8		*	MS	1		1014
	7440-50-8	Copper	86.5			MS			
	7439-89-6	Iron				1	1		
	7439-92-1	Lead	726.		DE	MS	I	R	
	7439-95-4	Magnesium				+ **-	1 -7		
	7439-96-5	Manganese	1530		D	MS	1		٠.
	7439-97-6	Mercury					1		
	7440-02-0	Nickel	4.4			MS	1		
	7440-09-7	Potassium				1	<u> </u>	**********	
	7782-49-2	Selenium	1.2	J	N	мз	231	UJ K	
Į.	7440-22-4	Silver	1.7		N	MS	1 774	1	
Ī	7440-23-5	Sodium					~ `		_
Ī	7440-28-0	Thallium	0.39	J	N	MS	-1+	K=# 3/10	iu _.
. F	7440-62-2	Vanadium	47.3			MS			
, i	7440-66-6	Zinc	261.		E	MS	1	U	
Ī	57-12-5	Cyanide					7	T4 2/18/	<i>l</i>
Γ									И
Ī									
						·	l		
color Bef	ore: BROWN	Clarity	y Before:		Texture: M	EDIUM	·	_	
olor Aft	er: BROWN	Clarity	y After: CLOUDY		_ Artifacts:				
omments:									
	-								
E: The	reported Ag	rue is estima	ted due to the	prese	ence of inter	teren	ce.	_	
			······································	····					
<del> </del>									

EPA	SAMPLE	NO.		
	MH36L8			

		Case No.: 407	<del></del>		SDG	NO.: <u>r</u>	ин зего	_
Matrix:	Soil		Lab Sample	D:	1030771011		···	<del></del>
s Solids	s: <u>79.5</u>		Date Recei	.ved:	11/03/2010	· ·		
Concentr	ation Units	(ug/L, ug or	mg/kg dry weigh	1 <b>t):</b> n	ng/kg			
	CAS No.	Analyte	Concentration	С	Q	М	1	
	7429-90-5	Aluminum	10900			P		
	7440-36-0	Antimony					1	
	7440-38-2	Arsenic					1	
	7440-39-3	Barium						•
	7440-41-7	Beryllium				1		
	7440-43-9	Cadmium	·			1		
	7440-70-2	Calcium	1890			P		
	7440-47-3	Chromium						
	7440-48-4	Cobalt				1		
	7440-50-8	Copper					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	44 55 6
	7439-89-6	Iron	37100			P		
100	7439-92-1	Lead				1		
	7439-95-4	Magnesium	5380			P		
	7439-96-5	Manganese				1		•
i tarata	7439-97-6	Mercury				1		
	7440-02-0	Nickel						
	7440-09-7	Potassium	1000			ъ	7-4	- FL
	7782-49-2	Selenium				1	_	TZ 2/18/1
	7440-22-4	Silver				<del>                                     </del>		_
	7440-23-5	Sodium	99.3	J	E	P	7+	The
	7440-28-0	Thallium				<del></del>	યં,	2/18/1
	7440-62-2	Vanadium				<del>  </del>		710["
ĺ	7440-66-6	Zinc						
	57-12-5	Cyanide						
		10,1440						
		<del></del>						
Ĺ		<u> </u>						
olor Bef	ore: ORANGE	Clarit	y Before:		Texture: CC	APGE		
		· · · · · · · · · · · · · · · · · · ·						<b>-</b> '
olor Aft	er: YELLOW	Clarit	y After: <u>CLEAR</u>		Artifacts:			
					<del></del>	-		<del>-</del> .
omments:								
F. The	reported va	albe is estima	ated due to the	nrese	ence of inter	Faranc		

EPA	SAMPLE	NO.
	MH36L8	

Name	e: ALS Labor	atory Group	Contract:	EPW090	 36		
		Case No.: 407					· · · · · · · · · · · · · · · · · · ·
Code	e. DATAC	case No.: 407	Mod. Ref.	No.: _	SDC	No.:	MH36L0
rix:	Soil		Lab Sample	ID: 1	030771011		
olida	s: 79.5		Date Recei	mod: 1	1 /02 /2010		
•			Date Recei	vea. <u>.</u>	1/03/2010		
centi	ration Unita	/22 cm /T	. /1				
Conci	tacion onics	(ug/L, ug or	mg/kg dry weigh	it):mg	/kg		
	CAS No.	Analyte	Concentration	С	Q	М	7
	7429-90-5	Aluminum					
	7440-36-0	Antimony	0.19	J	N	MS	120 - 21
	7440-38-2	Arsenic	17.3	<del>                                     </del>	E	MS	1.30 1
	7440-39-3	Barium	102.	<del>  -</del>	<u>.</u>		I 3/3/
	7440-41-7	Beryllium	0.53	J	· · · · · · · · · · · · · · · · · · ·	MS	3/10
	7440-43-9	Cadmium	0.12	J	E	MS	0.630 7
	7440-70-2	Calcium	0.12			MS	0.630
•	7440-47-3	Chromium	8.0	<u> </u>		<u> </u>	V.A.
	7440-48-4	Cobalt			*	MS	3/10/11
	7440-50-8	Copper	10.4		*	MS	3,10
	7439-89-6	Iron	73.1			MS	
	7439-92-1	Lead	500		·		_ 4
i	7439-95-4	<del></del>	532.		E	MS	15 "
	7439-96-5	Magnesium					]
		Manganese	675.		D	MS	
	7439-97-6	Mercury					
	7440-02-0	Nickel	7.1			MS	
	7440-09-7	Potassium			Sall Frankrysser,		
ļ	7782-49-2	Selenium	0.61	J	N	MS	3.1 UJ H
- 1	7440-22-4	Silver	1.3		N	MS	J+ 1
- 1	7440-23-5	Sodium					
	7440-28-0	Thallium	0.35	J	Ŋ.	MS	T+ 7
ŀ	7440-62-2	Vanadium	49.0			MS	- Av
	7440-66-6	Zinc	73.8		E	MS	T
L	57-12-5	Cyanide					J+ 7 J 2/18/11
L						1	
r Bef	ore: BROWN	Clarity	y Before:		Texture: (	COARSE	
			After: CLEAR				
ents:							
The	reported va	lue is estima	ted due to the p	presen	ce of inter	rferenc	ce.
							· · · · · · · · · · · · · · · · · · ·
							<del></del>